

agtotttgaa aaacttttgt gaagaaaatg gaattcatca catnttttct gccccaagaa 360  
 caacttagta gaatg 375

<210> 14221  
 <211> 349  
 <212> DNA  
 <213> Glycine max

<400> 14221

agcttagtan agctaggcac taacaggaag tgttggtgat ataccaatta anactaaacc 60  
 caactaaata caacttttgggt gtgaagtcgg agaagctggt atgattttatc gtaagtcaga 120  
 aggggataga gatagatccc gagatagtga aggccatcct tganatgccg gaaccacgca 180  
 cagagaagca tagtcggggg tttctgggca cgttgaatta tctcggcaga tttatctcgc 240  
 aactcacctc tactgttgag cggcatttta agctattacg taagaaccag ggggtcctgt 300  
 ggaacagtta ctgcatagag gccttctaga agatcaaaac gagtctcac 349

<210> 14222  
 <211> 174  
 <212> DNA  
 <213> Glycine max

<400> 14222

gcttatgaca attagaaatt ctctttatct tcggatgaat taatttgatc ggctcgatat 60  
 attataagtc tgaatcggac ctactgtga aaagttatga ccatttgaat tttttgagag 120  
 attcctgtgt ttgagatttc gagcgtctag atatattatg cgcctgaatt tgac 174

<210> 14223  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<223> unknown at all n locations  
 <400> 14223

agcttgatc ttcatgccag atactttcct ttatctttct ttttaatagt ggattgtgca 60  
 gaacaaggca aaaaaaagaa aagtagcgt aaactttcgc ttttaataaa tatttttaat 120  
 ttaataaaat tttaaaatac aaagtgcacaa attatcatatc atttaactct gcaatattct 180

atgtctcttt aataaatggt tttatatata attctgctca tatagaaata aagaaaacgt 240  
 tctttaattt attcattcca tttcaaaatt atactctcaa tctaaactgt ggagagataa 300  
 tattaatatt ctatttttat attattttct tgacaatctc aattactaat taaatttat 360

<210> 14223  
 <211> 316  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14224

gttaagacttg ttgctaataa atttactcag aaagatgaca ttgattataa agagacattt 60  
 taactggtctc aagaaaggat tctttcatga ttatcatgac attagtagcc cattatgact 120  
 tggagctaca tcaaatagat gtgaaaacca cctttctgaa tggagattta gaggagaatg 180  
 gttglatgga ccaaccaatg ggggtttcca gttgaaggaa atgaacacat ggtgtgcata 240  
 ctaaagaaat caatatacag tcttaaaagca agcttccccg caatgggtatt tgagggttaa 300  
 tgatac 306

<210> 14225  
 <211> 316  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14225

agcttgaatg ctctattcaa tggagttgac atgtatatct tcagactgat caacacttgc 60  
 acagtggcca aagatgcatg ggagatcctg ataaccactc atgaaggaac ctccaaagtg 120  
 aagatgtcca gattgcaact gttggctaca aaattcgaat atctgaagat gaaggaggaa 180  
 gaatgtattc atgacttcca catgaacatt cttgaaaattg ccaatgcttg cactgccttg 240  
 agagagaaga tgacagatga aaagctggtg agaaagatcc tcagatcctt gcttaagaga 300  
 ttgacatga aattca 316

<210> 14226  
 <211> 330  
 <212> DNA  
 <213> Glycine max

[illegible]

8.10	14227
8.11	363
8.12	DNA
8.13	Glycine max

3400	14227	
acttcttctc	aaggaaagcg	acgggtaatg tttatatatt acctataagca acgttatgtat 60
ctggaaaaaga	aactaaacctt	tttatatagc tcaactatct taatgggtggtg ttaatttccat 120
ctgttagaac	ttctttccaat	aactctaat ctgaaaaaca atcatgacaa tcaatattat 180
aaaggtctctc	ataaactcaaa	atcttggtcaa gattgatgca atatattggt caattcattt 240
ccactccagag	ttctaaaatct	atttgaatca aataaaaaagt caaacatcgt ttcataattct 300
ataaatttgtt	caaactcgact	ctcaatagaa gaaatatact attctaatac ataccataaa 360
ta		362

<L10>	14228
<L11>	329
<L12>	DNA
<L13>	Glycine max

```

.2234      unsure at all n locations
.4000      14023

```

gttaacttgen ggaatgcaagc ttatgtctga aatatataaa tagaactcct cttoctcagt	60
agcaaaaatca accacagcag aacaattatg acctcttcag caacagatac aaccttggat	120
agaggaatca ccttaacctc aaatgggtcc gccctcagca acaacaacag cagccttgctc	180
cttctcttaca aaatgtctgt ggcccaagca gaccatacat ttcttcacca atccaacaac	240
accaacaacg tcadaaacag ccaacagtty aggcctctcc acaaccttcc ctgaagaac	300

ttgtgaggca gatgactatg sagatcatg

329

<210> 14229

<211> 334

<212> DNA

<213> Glycine max

atctcttaagg acctgcnctt gcagctatgc tgaatatta caatagacc notcaatctc 60  
atagcaaaaa tcaaccacag cagaacaatt atgacctctc cagcaacaga tacaaccttg 120  
gatagaggaa tcaacctaac ctacagatgtt ccagacctca gcaacaacaa cagcagcctg 180  
ctctctctctt ccaaaatgct gctggcccaa gcagaacct atcattctct accaatccaa 240  
caacagcaac aaccccagaa acagccaaca gttgaggcc ctccacaacc ttcctctgaa 300  
gaacttgtga ggcanatgac tatgragaac atgc 334

<210> 14230

<211> 345

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14230

agcttcacag canatgatag aatgtctata tttttatcat ttgacaattt attggtatta 60  
tatgacttat ccttcataata tatagactct cttttttcat ctttatcaac tgtcgaattt 120  
tacataatto ataaatttta ttgataact tgcatagcac tgcattttagc aaatacagat 180  
taacatgctt gggtttataag tattgacaca aaacaggctt attgaaatac cttgtattgc 240  
atgttgcctag ggcttattaa aaatatcaaa ttattttaca tgtgtctgtg atatcacact 300  
tattaatgat gcataaaatt atgtaactat catgtctctc gttga 345

<210> 14231

<211> 145

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14231



tgetacttat atgacgntga ttccctatat aaacaagaat tatgactatg gtctaaatat 60  
 atggetattg actttctacc tgattgctgc gatgagctac cgggctgaac atgtcttgaa 120  
 tattgctcat gatcgctat acaccatt 148

<213> unsure at all n locations  
 <410> 14232

tctcgggtggt accgatgtcc atatatgtta tggatatttc tccctctggn ttgnttagta 60  
 atagttatca ttatgtgccc gatttctctt ccttcatttg atgataaagg aacaattaat 120  
 gtgttatcat ggcagggtcc attttgcctg tctctctaaa aagtgttccac aggaaatgct 180  
 taattataat attggccaat gggatattaat aatatctaat aaatactgat aaaaaagta 240  
 tctaataaat ttttaaatat attaaaagat aaacaacaaa ttttatattt taataaatac 300  
 attctattaa tgtattcgtt ttgttaacta acactctaaa gaaaatggtc ataatactct 360  
 cttgaaaaaa tatattatgt ttattgcatt aatatatata aactcatgta ttttttccat 420  
 agtagtataa agggaaacaa ataagagtaa atcatacttt cttctctctaa taaatacaag 480  
 tattcaatgt aacatcatg 499

<210> 14233  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <410> 14233

atcaattgag gaagccttga caagttcccc attgaaaaat gaaattctga taccaatgccc 60  
 agatgtctga caggatgtca cgacatcacg cttcagaaca tgcagattat ctctgagtga 120  
 atgaacagat taaacaagta aataacacaa gagaatttgt aacccagttc ggtgcaacct 180  
 caccatatac tgggggctac caagccaggg aggaaatcca ctaaaatagt gtgagttcac 240  
 ggtctaaacag ccactgttta caacctcttc acctaaaccac taccctgtgag acctctacct 300  
 aagagccact cttatgatag agaacccttc tcactccctc tcagaaactc tccctgtgnt 360

acaattaaat caaggacact ccagagatgg ctctctgaac aaaagagatc aactctacac 420  
act 423

<210> 14234  
<211> 499

<212> DNA  
<213> Glycine max

<210> 14234  
<211> 499

ctgatgggtgt cgagaagaaa tcacatgtnt gtcacaaaca tataggggga gaatgtgaat 60  
gtatgtatac atgattttga tcatgtcaaa aaaagaatca aataaggctc attttgettc 120  
aagattaata caagattgtt tcaacaaaca aagcttggat tcaagatttc tcaagatca 180  
agcttggct caaatgtag agatttcaag tcacaaagg cacatgtaat cgattacca 240  
tcacatgcaat cgattacca ggcacatgaa agtgtgtaat cgattacaca tcatatgtaa 300  
tcgattacca gagactctga atgttgggaa ttcaaatttt aatgaagag tcacaactgt 360  
tcaagaaaaa caactgtgta atcgattaca ctaattntgt aatcgattac tagagaggga 420  
tttcaaggaa tatcgccaac agtcacatct tatcatttgg attttgaatg gccatcanag 480  
gcctatatat atgtgtgac 499

<210> 14235  
<211> 361  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14235

agcttgtann ggttaaagtc tcacatgttg ttctgttctc gtgcaacaat tggtagccgc 60  
gattatacga gacatcttgc caaacaagt caggttagcc ataactcgtc tgtgcttttt 120  
cttcttggct atatgtagca aagtcattaa tccagtcaag tttgatgagt tggaaaatga 180  
ggcgcgaat atactgtgcc agttggagat gtattttccc cctactttct ttgacatcat 240  
gattcacttg attgtgtatc tggtcagaga aatcaaatgt tgtggctctg tttatctacg 300  
ggggatgtac ctgggttgagt gatacatgaa gatcttaata ggtatacaaa gaactatat 360  
t 361

<210> 14236  
 <211> 496  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 14236

14236 14236 14236 14236 14236 14236 14236 14236 14236 14236

```

attatadagt gttatgaac caatgggggtt gtagccaata aagatcatta cttcaatttt 120
gttgtctaga tttctctttt ttgtatcagg aatatgttta tagcataaag agccaaatac 180
ctttaaagtgt ttgatagaag gtttcaatcc ataccagggt ttttcagggtg ccacagaatc 240
tagctttctta gtaggacacc tatttagcaa atagacagca atagtagcag cttcacccca 300
aaaactgtgt ggttagattct ttgttttcaa cataactctc accatattaa gtatagttct 360
gtttctctctc ttaacaacch cattatgttg ggtgttataa ggtgcagtga cgtcatgcat 420
gataccttga tegttaacgt acatgtcaca ctcacttgag ttgaattctc caactgcate 480
tegtttgagg atcttc                                     496
  
```

<210> 14237  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 14237

```

cttgggcaaa ttcaaacgaa caataacttt tactcggatg ttgtattgag tcccgtaata 60
tatcgacaag ctcgaaattg aatgtcgaag ctctgaggaa attcaaacga caataaatat 120
ttaactcggat gtctgataga gtcccgtaac atatcgagge gctcgaaatt gaatgttgaa 180
gctctgagcc aattcaaacg acaataactt tttaacggga tgtctgattg agtcccgta 240
tatatcgaga cgttcgaaat tgaatgttga agctctgagc caattcaaac gacaataact 300
ttttaactcgg atgtctgagt gagtcccgta atatatcgag acgttcgaaa ttgaatgttg 360
aagctctgag ccaattcaaa cgacaataac tttttaactc gatgtctgat tgagtctngt 420
nataatcga gar                                     433
  
```

<210> 14238



aagctagatc ttgatgggta ttcaagccat ccttcgtctt gccttgaatg ttaaggagca 240  
tcccaatcac actgtcaca acattttctt ccacatgcac aacatcaata caatgtttaa 300  
cacaagatc acaccagtac ggaatatcaa agaaaatgga cctcttcttc catatgcaac 360  
tcgtacttct accctctctt tgggtcttct caaatcacgt attcaggtgt tgaacccgt 420  
tctcctctct tctcaggtct cgtctcttct cctcctctct cctcctctct cctcctctct  
480

<210> 14241  
<211> 408  
<212> DNA  
<213> Glycine max

<400> 14241  
ctccttagt gagcaagtcg ctcaatggc tggctatctt ggagaagacc ttgatgaac 60  
ttctatagaa accgtcgtgt ccaagaaaac ttctgatacc ctgggcattt actggtggtg 120  
gtaactctct aataacatca attattgctt tatgaatctt gatgccttga gctataattt 180  
tgacgccccaa gactatcgct tcttcaacca tgaagtgaac cttctcccaa ttcagcatca 240  
tactggctct aacatatcta tatagtaacca gctctagatt cgtcaagcag taatcaaagg 300  
aaggcccgaa cactgagaag tcatgcatga agacttctat gcatttctct accatgtcag 360  
cgaagatggc tagcatgcac ctctggaaaag tggcaggtgt gttcataa 408

<210> 14242  
<211> 427  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14242

ctcgggggga cctctngact tgcntccaa tctgacattt tccacttatt ctgccttctt 60  
ctatttccag attgggaatg cctctaacag cacctntgtc aatgatttct tccatgcctc 120  
ttaagtgcag atgtccaaat ttatgatgac atattctgac ttcacttctt ctggagaata 180  
gacatgtgga ggagtaactg gtctcttgag gtgtccatag gtaacagttg tcccttgatc 240  
tgetgcctct cattaggact tcaactctct catttgcac caagcattct gaacttctga 300  
agttacattg tacccttcat cacacagctg actgatgctg atcaagtttg cagtcacttc 360

cttcaccage agtactttgt tcagactagg aagtcocatca tggactatct atcccattca 420  
 ttgattt 427

<210> 14243  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14243

tacatgtgct atagtctcga gattatnttc tgcctgatt atgtcgncaa cataaacaag 430  
 aatagctggt atatcattat cattatcaga atataataaa agcgagtgat caactgagga 440  
 tgaagaaat cctctgtgaga gaagaaatga cgaaagccgt ggaaccatg ggcgactggc 450  
 tggtttgagc ccatataagg aacgctgaat ggcacaaaca aagttgggat tatccacaac 460  
 aagtcttggg gggagcttca tataaacctc ttcattaaga tccccatgaa ggaaagcatg 470  
 gtttacatcc agtctgtcga tgtgccagtt atgaagagca tcaagggcaa tgagtaaccg 480  
 gactagtgtt agcttggcca caggggagaa tgta 494

<210> 14244  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14244

agcttagatg gagaagaaga cagcgagatt gttattacag cgtgaaggag acgaaacata 500  
 cctaggtatg gtggcgaagg agaagaacca cagagttgtc acgatgctcg agtgcgacga 510  
 aaacgatgct cgagcttaga caaaaacgatt ctcagatgaa gaacagacaa ctccaaggta 520  
 aatggacaac aaagagagca agaaagctta gatggcgaag aagacagcga gaaggagaag 530  
 acagcgtgaa ggagacgaaa catacctagg tatggtggcg aaggagaaga agtagagact 540  
 tatgaacgat ctcagagtgg acgaacacga tgcctcagatg cagaacatag accttcaagg 550  
 tagacggaga ttataagaag aagaagagag cggcgaagct tatatggaga agaagacagc 560  
 gcgagcttca tagggctcan cgatatctta aaatat 566



ggacottgaa actcagctgc cantaaaagg catngttata tcatattgct gattatocca 60  
 atgaaaggaa gtggataaag ttagaatagt tctgattggt atagggttca caactgggga 120  
 aaatgtttct ttgaaatcaa aaccaggtct tggatggaag ccttttggtt caagaagtgc 180  
 attcatttca ctacatttct tctcatttct tctcatttct tctcatttct tctcatttct 240  
 attcatttct tctcatttct tctcatttct tctcatttct tctcatttct tctcatttct 300  
 accatttttt caccatagc atctttccac ttaggatctt taagtgttgt ttgagagctt 360  
 ttatgaacaa catgagttag aagcaagggt ggttggagtc taggcttgac aattccattt 420  
 ttgatctca ggttcattatg atgaatg 447

<210> 14248  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14248

agcaatatct ctaagggtca cctgtgcaac aactagcaaa ctaagaaact cgtcattagt 60  
 cgagatgttg gagntgatga gtacgcttct tggatttggg ataaagaana agtggagaaa 120  
 aaagtcttta taactgctca actacctcaa gaagaaactg aggaagaaga cccaggtgaa 180  
 ccacottcac cttcacctcc accacaacaa caagatcaag aactatcacc accagagtct 240  
 actccaagac gagtaagatc tttggtggac atatattaaa cttgtaattt ggccataact 300  
 gaaccttaata gcattgaaga agcgtcaaag cactgaagtat gggtaaggc aatggaagaa 360  
 gagatacaaa tcatcgagaa aaacaacata tgggagttag tatatcgtcc ccttggaana 420  
 gataicattg gctttaagtg ggtctat 447

<210> 14249  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14249

gaaaagatgg cctcatcaaa ttccttattt ccagtangta attctatcaa tagacctca 60  
 atctttaatg gagagggtta ccactactgg aaaaccggaa tgcataattt tctcagggca 120



atagatctaa atatctggga agccattgaa atagggcctt atataccac cacagtagaa 180  
 agagtctcaa tagatggtag ttaccaagt gaaagcataa ccataaaaa acctagagat 240  
 agatggtctg aagaggatag aaaaagagta caatacaacc taaaagctaa aaacataata 300  
 atgtctctct taaaatctaa taaaatctaa taaaatctaa taaaatctaa taaaatctaa 360  
 atgtactaac tcttgag 420

<210> 14250  
 <211> 395  
 <212> DNA  
 <213> Glycine max  
 <230> unsure at all n locations  
 <400> 14250

gcttgatctg tctaaagcct atgtctctgt tctatctgt tctctggaga gaattcttag 60  
 ctctatggga tcttcaagtc atggggctga tcttattatg aactatgggc agaactgttc 120  
 tcttgacgt atggtgaatg gttctcccca tagagtcttc acacaaaaag ggctctcagg 180  
 caaggggac ccttatcact atatttattc attttatatg tgaagcct atcagctatg 240  
 gtgactagat cgttgaggca aggagcatta catgggatta gtgtccctt cagcccttat 300  
 gataactcat tctctcttg tagatggcat tctcatntt tgcacagcaa ccaatgaaga 360  
 agcaagcct tctctacaa ttnccaagct ctatg 395

<210> 14251  
 <211> 433  
 <212> DNA  
 <213> Glycine max  
 <400> 14251

taggttatca tctgacccg gtgtctctg aagacacct cagtctaac tttggacttg 60  
 taatgggac taaggattt tggtagtgc tttgggctc actaatgcct ctctacctt 120  
 tcagtctgc atgaatattc tccaccatt tctaaaggaaa tatgtctag tttttttt 180  
 atgatatct tcttctcagt aaaaatga ctgacgttt aactcacta cactgggtt 240  
 ttcagttagt tgtgtctaac cagtctctg ccaaatctaa taattgtct ctggcttga 300

ttcgggttcaa tatttgggca atgttattac tgcataaagggt gtatcctcag atttggataa 360  
aattacagcc atcttaacttt ggccgggagcc atgttcttta caacataagg ggcttttcta 420  
aacatttaac aagaaattct gagtctctgg ccgtctctct catcgatttc ttatgttcca 480  
cta 495

<210> 401  
<212> DNA  
<213> Glycine max

<400> 14252

taacttgggtt acccatctgg ccattgaatta aaaatgtgga cctgtctgcca gactctgtgc 60  
tttatgctcc ttgtccaacc accacacaga cctttgacct totatgcagc aacttggagc 120  
aatagaatag cctgaagctt atgctgcata catctacaat agacctccgc aacctcagca 180  
acaaaatcaa ccacaacaga acaattatga cctctccagc aacaggtaca atcccggtg 240  
gaggaatcat cccaacctta gatggtcgag tctctcacia cagcaaccac aacaacaaca 300  
gccttatctt cagaatgttt ctggcctaag tagacctat gtctctccac caatccaaca 360  
gcacaacaaa cagcagcagc aacaacaaca acccaaaaac a 401

<210> 14253  
<211> 417  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14253

ttggtgacaa ctttatcttc atccaaatgt nttttttgca tcagaagggt ttaaacggga 60  
aaaaaattaa ttctcatgag aaataacttt tgaaaaaata tatgatgtac aactaacctc 120  
gttgaatatt gtccaaaaat ttccccaat tattataaaa gtgatatgat aatatttaga 180  
aattttgatg ttaaaatagc gttgtagyac aacaaagata caataactat gaaaaataga 240  
ttcttgtaat ttgtttggct tgagaaaaat atgacatatt attaagggtt aggaaattcc 300  
ctattaaagt ttataaaatt cagaggtgtg taagtaacttt ttctaaatta aaaatagcgt 360  
ttaagaataa ttccagtgtt aacagttaaa ttggaagaaa agttttctata atgagtt 417

<210> 14254  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<221> unsure at all n locations  
 <400> 14254

gagggggc aatgggat agacaagacc attggtcttac tcaagagaaa gtcttattgg 120  
 tttttatga aaaaagatct ccataagcat tgcactatgt ggtgggcttg ttacaagcc 180  
 aagtctaagg tcatgctcca tgnctatac acacccttac ccattccatc tgcaccttgg 240  
 cttagacatta gtttggactt tgtccttggg ctctctagaa cccaaagagg tctagactct 300  
 gtccttgttg tggtagatag gtttagcaag atggcacact ttataccatg ccacaagggtg 360  
 tatgatgctt cttacatctc aaaactc 387

<210> 14255  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<221> unsure at all n locations  
 <400> 14255

agcttgggta cctcattctt cactacttat ataactaccg ggcttgagctt tctctgtggc 60  
 tctcttattg gtttagcccc atctctataa ttatttcgat gcatacatgt ggaaggggcta 120  
 ataccaggat tgcctcgcaa ggtccagcct atagccttct tatgcttctt gagaactgat 180  
 aacagcttct tctcttgcct atcagcaagg gaggcataa taattatttg aaaacttttg 240  
 ttatcatcca agtaagcata ttttaaattt gatggcagag gcttcagttt tgggtgtgggc 300  
 ggtctgataa tggtagaaaag agatggcttc tttagctgta cctcataaag aaagtaagag 360  
 gtatctgtac ttctgaaaac atgtgtagtt ctatctgact ctagaaaatc aatctcaaga 420  
 gggaaaacat caccagacat gtaatc 446

<210> 14256  
 <211> 496  
 <212> DNA  
 <213> Glycine max

<221> unsure at all n locations

<400> 14256

ntagettctt aaggaagttt tctcaaagaa gcttctcatg gaagttttct taagaaagct 60

tctcaaggaa gttacttagt ctataaataa aagcatgtgt aacacttggt ataactttga 120

tgaatgagag tcttgtaaga cacaactcaa agttcaactt ctctcccttt tcttctcttc 180

ggtttctctt gttttctt gttttctt gttttctt gttttctt gttttctt 240

cttgaatttg gttttctt atctaatcaa atcttttttc aaacagagaa atcaaatatt 300

taacttaattg atgcttaatt agaaactac ccttaataca aaaaacttagt ctaggttccc 360

taaaatataa gagatgaaaa atcttacatt tctagggtac ctttaactata ttgtggagcc 420

ctaaatataa ggcctaaaaa taatgaaacc ttaactaat atgtataaag ataagcgggc 480

ttaacttag cctatggg 498

<210> 14257

<211> 253

<212> DNA

<213> Glycine max

<225> unsure at all n locations

<400> 14257

ctataataca cgcctgaagt aaatcctcta gagcctgaat ggttcgttca gtctgacct 60

ctatttgagg atgataagct gaactaagct ttagctttgt ccccaaggct tcatgtagac 120

ttgtccaaaa tgcggaagtg aacctcggat cctgtccga tacaatactt gaaggaantn 180

ncatgcacct taattactct ttgatataca actgtactaa cttatccatt ctatacttca 240

tattcaccgg aat 253

<210> 14258

<211> 207

<212> DNA

<213> Glycine max

<400> 14258

tggagatcc gagtataaag ttattgtcgt gtaacttttc cttagagcttc cgttttcaat 60

ttcgagcgtc tagatatatg ataaggctca atcgaaacatt cgagttaaaa gttatttggtc 120

gttgactttt ctgagagctt ccgttttcaa ttcgagcgtc ctgatgtat tatagggttc 180

aatcggacat tggagctaaa agatatt 207

<210> 14259  
 <211> 161  
 <212> DNA  
 <213> Glycine max

cttcccttctgt ct tctcgagc ccttgaatat atcaagacac tctgaattga aaacagaagt 120  
 tctgagcata tttaaaacgac aataactttt gatactgatg t 161

<210> 14260  
 <211> 315  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14260

cacacccatgt ttgatgatgc acctgagca acaaaaacttg gcggttgcgc catataaacc 60  
 tctntctcaa tctcgccatg taggaaaagt attcttttct caagctagaa gagacgcgaa 120  
 tgacagatga cagccattga caaaagaaga cgaacacaag ccatntcggc tactggagag 180  
 aaagtatcta tctagtccta tccatagacc tgagtgtaac cttttgcac caaacgttcc 240  
 ttgaaacaat caatgggttcc atcagggcca attttaagag tatacaatca ccgacaccta 300  
 acaacggatt ttcca 315

<210> 14261  
 <211> 317  
 <212> DNA  
 <213> Glycine max

<400> 14261

gcgtctcgat atattacggg acctaatcg acatcagaga taaaagttat tggttgttga 60  
 attatctcag agcttctgca ttccatttcg agcatctcga tatattacgg gactcaatca 120  
 gacatccgag taaaaagtta ttgtagtttc aatttgcctc gggttcgggt attccatctc 180  
 gagcgtctcg atgtattacg ggactcaatc agacatccga gtaaaaagta ttgtcgttga 240  
 attgctagag ctctacatc aattcagctt tctattatac ggactcatca acatccagta 300

aaagtattgc gttgatt

317

<210> 14262  
<211> 213  
<212> DNA  
<213> Glycine max

cttctgatcc ctgtctagata caatactaga aggaattcca tgcacacctt ctacttccct 60  
gctgtacaaa tccactagct ttgccattct atacttccac cgagtgaagt gttatgacca 120  
ttctgaacnn ttgagagcct tctctgttctg acttcgagcg tctcgatata ttatgttctt 180  
gaatagaaca ttgagtgaa atgtatgaca atc 213

<210> 14263  
<211> 162  
<212> DNA  
<213> Glycine max

<400> 14263  
tgccatggtt gttgtggatg attctctctag atttaacctg gtcaactcta tcagataaaa 60  
gtcagacacc ttgaagtat tcaaggagct gagtctaaga ctccaagag aaaaagactg 120  
tgtcatcaag agaatcatga gtgaccatgg cagagagttt ga 162

<210> 14264  
<211> 230  
<212> DNA  
<213> Glycine max

<400> 14264  
aatgcgccga taccgttgac ttgtgggtag gtcttccaac ggggtgaaca cctgaatact 60  
gtattttgga aagacccaaa agaaggataa aagtaagact tgcatatgaa agaagaggtc 120  
gattttcttt gatcttccgt actggtctga tctagatggt agacattgta ttgatgttat 180  
gcacctggag aaatatgtat gtgacagtgt cattgggaag ctcttaaca 230

<210> 14265  
<211> 453  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14265

actaagcttg gactntcagc tctggaatat gaatgtggca tatagatcca aagaccctta 60  
cgtgctttgt tgaatggcttc tctcgtttcc aagcttcaat cagagctctg tcttttacag 120  
tctctctcga gactcatttt tcttgaggag aatatgccac tggtagttgt cgtccaatgc 180  
tctctctcga gactcatttt tcttgaggag aatatgccac tggtagttgt cgtccaatgc 240  
tctctctcga gactcatttt tcttgaggag aatatgccac tggtagttgt cgtccaatgc 300  
ctctctctcga gactcatttt tcttgaggag aatatgccac tggtagttgt cgtccaatgc 360  
tagtactatt atccagtttt cacttgcatt ttcagcaagg gccatgaaca tttagaatac 420  
tccanagact tctgattggt ctattagaaa ata 483

<110> 14266  
<111> 435  
<112> DNA  
<113> Glycine max

<223> unsure at all n locations  
<400> 14266

gacgaaggaa tgtatctacc ttcactcacc caaagatgaa tntggctatc gggcttggga 60  
tccaatcaat aagaagggtg tccgtagcag agatgttgta ttcttcgaag accaaaacgat 120  
cgaagacatt aaaaattcag agaagccaag attgagaagc agtaagaaca ctgaacttac 180  
tccagtccga cytgaggata atgacacaac agaaaatagt gatgctgaag atcatgagcc 240  
tatgttagag caaaacaatc aggagactca tgatgaacca ggtcaggaag atctcattc 300  
tagctctcta tcaatgccag agccaagacg atctcttagg gaaagaaggc catccacttg 360  
atataacaca gatgagtacg tgatgctcac tgatgatggg gagcctcaaa gcttatagaa 420  
gccatctatg ata 483

<110> 14267  
<111> 431  
<112> DNA  
<113> Glycine max

<223> unsure at all n locations  
<400> 14267





atcgaaaatc cgagtcacaaa gttattgtct gtccgaatttg ctaagagett cagttttcaa 300  
 ttaagagcgt ctgatatat tacaagactc aatcagacat ccgagttaaa agttattgtc 360  
 gtttgaattt ttgagagct tccgttttga atgtcgagcg tctcgatata tta 413

<210> 14270  
 <211> 340  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14270

tgttttcaac atacaaaatca aaatcaaat ttgtatcttc aaaaacttagc tccagcttcc 40  
 tctctctccat atcaactatg cagcttgagg tcaacatgaa tggccttccc aatattacaa 110  
 ggaatgcagt atcttcagag atctccatta ccacaaagtc tgtcgggaag aataaaatgt 180  
 ttattctgac caaaaacatct tcaattactc catatggcct ggtaatggag cagtaagcta 240  
 attgtaaagt ccttcgagtg ggcattatct ccaactcttc caatctcttg cacatggaga 300  
 ggggcaccaa attgatactg gctcccaggc caataagagc ttttcccaca ttgacttctc 360  
 caattgaaca aggaatctgt acaactccaa gatctttatg ctagggtgga aggatcttct 420  
 ggaacacagc actgcaatnt ccttccacta tgat 454

<210> 14271  
 <211> 340  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14271

cgcctgaaat tgaataacgg atgctctcta gaaatcagat ggtcataact nttcactcga 60  
 atgcccagatn taggaacaaa atatatagag acgctcgaaa ttgaacaaca gatgctctct 120  
 agaaatttaa atggtaaaaa tttttcactc ggaatgttaga ttcaggacaa taatatatcg 180  
 agaacgttga aattgaacac taaagctctg gtccaattca aacggccata actattaaca 240  
 tgggtgtatg attgaggccc atgatgtatc gagatgatag aaattgaata acggatgctc 300  
 tcatgacatt caaatgggta caagcttcca ctcgatgtgc 340

<210> 14272

<211> 273  
 <212> DNA  
 <213> Glycine max  
  
 <400> 14272  
  
 aatcaccatgc atgggtgggc tgggacgtgc tcccttgcctc ttggcttctc aactcaagga 60  
 tgggtggtg atggtggtg ggtggtggtg ggtggtggtg ggtggtggtg ggtggtggtg  
 tgggtggtg atggtggtg ggtggtggtg ggtggtggtg ggtggtggtg ggtggtggtg  
 caactttctt taactattc ttctctagaa actatctctg tggggacact cgaattgtcc 240  
 ttgataagtc caattttgaa gtgggggatg atgggaat 273

<210> 14273  
 <211> 207  
 <212> DNA  
 <213> Glycine max  
  
 <400> 14273  
  
 tcatcattta taagtggtg cacccaaaaa tacagataat tggccagctt tatgtgcaat 60  
 tagtgtccca ttcaattat cttcaatag agtetaagga ataaaccctt gttctatggt 120  
 cttcagataa acgattctct cataagttct ggttcagagt caaattcccc tcttctttaa 180  
 cctctgttat tattctgatg gagtga 207

<210> 14274  
 <211> 335  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 14274  
  
 tgaaaaanna caacgttttn ttttcaaaa tatttccatt tttatagatg aggcgttatt 60  
 tgatttcgaa atccgattat tatattctta acccgaagtg ctcttggtg tattcataaa 120  
 aagtaataat tttcttctga atcttagcaa ttgatctct ttcgaaacac caatttttct 180  
 ttcatttgaa ttgacagtga attcttctcg attcttattc gaattatgta ttctttttct 240  
 taaattaaac aaggcaagga ctaacttctg aactgcaagt aaaataaatg atagaataca 300  
 acatagattt attctattgc tctatgactt gtaat 335

```

A123>      unsure at all n locations
A400>      14.75

```

[illegible]

```

423>      unsure at all n locations
440>      14276

```

ctaaagctgaa	gcaactggat	gcatggtaac	taggtnaccc	agctggcctt	gaatcagaaa	60
tctgtacctg	tgcgaagggt	tgttggtttg	tgtctctctg	ctgaccacca	tacagacctt	120
tgcctctcca	tgcagcaacc	tggagcaatt	gagcagcctg	aagcttatgc	tgcaaataat	180
tacaatagac	ctcttcaacc	tcaacagcaa	aatcaaccac	agcagaacaa	ttatgacctc	240
tccagcaaca	gatacaaccc	tggatggagg	aatcacccta	atctcagatg	gtccagccct	300
cagcaacaac	agcagcagcc	tgttctctcc	ttccaaaatg	ttgctggccc	aagcagacca	360
tacatctctc	caccaatcca	acaacagcaa	caaccccaga	aaca		404

223> unsure at all in locations

<400> 14277

tettacaaga gactaagana tntctgacga nnaaatttga gatgaaatat ttgggggaag 60  
ctctntttgt attaggaato aagatactaa gagatcactc tcaaggcato ctaaggttgt 120  
cacaagagag ttatctgat aaggtcttag atagattcgg catgaaagat agtaaacag 180  
cctctctctc cctctctctc cctctctctc cctctctctc cctctctctc cctctctctc  
cctctctctc cctctctctc cctctctctc cctctctctc cctctctctc cctctctctc  
cctaagtttg caactgtctc gatatagcat ttgtagtagg agttctgggt agataatnga 360  
gtaactctgg aatgcaggan aatgtgttat gcgttaccta aagagaaaaa aatgatacat 420  
gttcacttat caaagttatg agaattctga gatcattgga tactcagact ctgatt 486

<110> 14173

<111> 376

<112> DNA

<113> Glycine max

<23> unsure at all n locations

<400> 14278

aacattacaa tagactctct caacctcagc agctttatct aaccacagta gatcaattat 60  
gacgtctctc agaacagat acaatctcgg atggaggaat caccttaato tcagatggtc 120  
tacctctcaa caacaacaac aacaacttgc tcttccttc caaaatgctg ttgggtccaa 180  
tagacctgc gttctctctn cagtgcacaa acaacaacaa caacagcaac aacaacatca 240  
atagagacaa caatccacta ctgaggcccc tctcaacct tcattagaag aattagtgag 300  
gcaaatgaca atacagaaca tgcagtttca gcaggagact agagccttga ttcagagttt 360  
aacaatcag atgggg 376

<110> 14179

<111> 454

<112> DNA

<113> Glycine max

<23> unsure at all n locations

<400> 14279

tgatccttca gtcacctgag gnatgcaagc ttatggtctt aggtcttaac cactagtaat 60  
cacataaaac gaagtattat tgggttactg tattttttat tagcactga tatatatacc 120

ttttagcggaa cagttatata atggccctgg aagaccatta atagtgtagg catcagacac 180  
 attttggtcct ccacctggtt gcaatgcctg tgttatgact gcctcaggat ctgtattcca 240  
 ccattctcct gatatatgcn gttatatgca tgttaaagat aggtcactcc taagtacatt 300  
 aaggtaaata nagaaacact atggtatgar gtcacagta ctttcttatt accaaagatg 360  
 ttttcttctt ctttcttctt ctttcttctt ctttcttctt ctttcttctt ctttcttctt  
 atgatacggat catagagagtgat ttaac tgg

<210> 14230  
 <211> 356  
 <212> DNA  
 <213> Glycine max

<400> 14230  
 ataagtggac ggagagggag agagaggggg caggaatgt atgctcctaaa tgaggtctga 60  
 actctgaagt cttaatttttc atatgataaa agctgaaaaa atgggcacac aaggtctctc 120  
 tttatagcct aagtgtcgca caaaattgga gggaaatgtg aatttctatt caaatgtcac 180  
 ttgaatctga atttgaatta gtggagccaa cattggagtc aaaaactgcac tgattgtgaa 240  
 ttcaactatg gtccatctta ctaatccaag atcaaggcct agattctcca ctaagtgtgc 300  
 ttatgtgtca tgaagcatgt taagcatgaa gggtatgcat taagtgtgac tatacaatgt 360  
 gtcaat 366

<210> 14231  
 <211> 355  
 <212> DNA  
 <213> Glycine max

<400> 14231  
 tcacatcttc aggaaccaatg tctttcatat cataattact agacaataga gaattcacat 60  
 catgtatgaa tagcatacta ctaccaaata tcagcatgtc gtgcacatac aagcataaga 120  
 tgacacattc actctcctca ggttggtttcg cacacactca tttagcaact atcattgata 180  
 ttgaaaagca tatgagagaa caacttgagc tgacttttcg cgcatttact ttggagctta 240  
 tttcatgacc atattaagat ttaacaacct ataattctata actagtacta tatagagaat 300  
 atacaacaga cacataatca acagtttttg gtccaacttt tcttttctta ttaat 355

<210> 14282  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14282

```

atgaatagct ccttctctcc acatctgctt ggaattgaat aaaccccttg atgctctctt 121
atatggtttt taacctctct atgcaacttc tatacaaata ttgaactaga ttccctctct 180
atatgtataa aagaagtgtc cagtgggaag ggaatgaggt ctaacgggtg taggggattg 240
aacccataga caacctcaaa aggggactgc ttgggtggtc tatgaacccc cctgttgtag 300
gtaaattcta catgaggaag atactcatcc caagacttat ggttgcctnt cagaagagcc 360
cttadaaggg tggataaaga cctattcaat acctcatgtt gcccatcag ttgtggatga 420
caagtgatag agaatagaag tttagtt                                     447

```

<210> 14283  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14283

```

ggatcttaag tcacctgcan gctgcaagct gcatttaaga ccaccccccc accccgaatg 60
ctgattctca atccagcagt cccttaccac cttgttggtta tgccttgctat taagccatcc 120
atcanagacc ttaanaggct tangacccc atcaatgctc ttagatttca tgaggatagg 180
gcagtgatca gagttagttc ttccaagggg gtgctgcgaa ctgtctggcc acttaaaaag 240
ccaaccatca gagacaacag ctctatccaa ttgtctttta caggaacctat tatgcctaac 300
ccatgtgaac tgcttaccac cactaggaat atcttccacc tccatgatag caagccaatc 360
attgaaatct gacatgatgc tggactctga atttccatga ttgtctccca ttctctct 418

```

<210> 14284  
 <211> 343  
 <212> DNA  
 <213> Glycine max

<400> 14284

ctatcccgca cagatgacta tataatcaat gccttcacct catcttcaca attaatctgc 60  
actgaactcca actgggtaag aatagtatct aattcattaa tatgatcagt tatagagata 120  
acttctccta tcttgatgat gaacaacga cacatcaagt atactttgtt ggcttcgaag 180  
tcttcctcga tcttcctcga tcttcctcga tcttcctcga tcttcctcga tcttcctcga 240  
tcttcctcga tcttcctcga tcttcctcga tcttcctcga tcttcctcga tcttcctcga 300  
agcaatgite atcttcttt gcttatggg ctgacttaa ccc 343

<210> 14285

<211> 464

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14285

attctaatct agaaatccat gaaggtacct taatgtctga ggcttatggg actaagatgg 60  
tcattgaaca gtccctatct tatgatttaa cccaattgcc aagcgaaggt gtaccatttg 120  
aaggtgcact gatlgatgat tggaagtttt atttctctgt acatgatgcc cgcgattgg 180  
tttglaccaa tcaagcagat atgaaccgaa ggcttcttgc cagttcattg gcttttgaaa 240  
gcgcacacct ccattacctt attgttcgca tcttgcttcc gagatcttca aaccttgctc 300  
atgtttctga agaagatctc attgtcatgt gggcctttca taaaggttta caaattgatt 360  
gggcacacct tgttagatat cgcattgata aggcattgca attgaatgcc ccattgcctt 420  
atcttcacct tgtatccttt ncttaacct caacatctc tga 463

<210> 14286

<211> 356

<212> DNA

<213> Glycine max

<400> 14286

tcaaaattaa aaataccag gaatcttgc taaaacataa ttttgaggca tgggatgact 60  
gaactccgag aagtaaagcg gtatctgcaa ggggaaccc ctggaaacag ttgacctg 120  
tgataagaag atcatgcggc tgagaacccc tatgattctg taacttagtt ggccaatgga 180  
catgattatg atgcttacac tctgtgcgat tctctgtage accttcacca ccattgatgc 240

gtctgttgaa tcaagtcacat gttgccttgt ccaggattag aaggtttttg tgaatctacc 300  
 cttcttttatt caacccaaccc acgcaagcgt ccaacctcac aattttggat ttgatg 356

<310> 14287

<223> unsure at all n locations  
 <430> 14287

cttgatgggtg ttgagaagan atcacatggt tgcacatcac aataaggggg agaatgtgaa 60  
 ttatgtata taaghatctg atgatgtcaa agaagaatct aataagcctg ctccaatga 120  
 taagcatctg ctccaagaat aattcaagat tgcctcaaca aacaaagtcg tgtntcaaga 180  
 ttattaaag aacaaagcctt gccttataac aaagtgcctt caagacatcc aaggctcttg 240  
 ttatcgatta ccaggaagtg taatcgatta ccagaagaca gggttgaaaa atagctgttg 300  
 aacaatgttt tgannattga attcaacat gtaatcgatt accatattgt cgtaatcgat 360  
 taccagcaac gaaacttttg aaattcaaat tcaaaagtta taaccttca aattataact 420  
 gtgttatoga gtaccacac attataatcg attaccagtg gagagtgtgc agatnatctg 480  
 ccaacagtcg cgtcttttca tta 503

<110> 14288  
 <111> 394  
 <112> DNA  
 <113> Glycine max

<223> unsure at all n locations  
 <430> 14288

atgccttagt caacctagta actcagctgg ccataaataa aaaatctgca tctgcctcta 60  
 ttactgttgc aagagtctgt ggtctatggt ctcttggtga tcaccatata gatctctgtc 120  
 cttcttttgc gcaatttggg gtcaatgagc aacctgaagc ctatgctgca aacatttata 180  
 atagatcccc tcagcagcaa aaccaacaat agtagaataa ttatgatctn tcaagcaaca 240  
 gatacaatct aggttggagg aatcatccaa atctgagatg ggcaaatcct ccacagcaac 300  
 aacagcctgt cctctccttc cagaatacta cgggtccaag cagycatctt gttctctctc 360  
 caatgcagca gcaacaacaa agacaacaag caac 394



<110> 14289  
 <111> 432  
 <112> DNA  
 <113> Glycine max

<123> unsure at all n locations

<400> 14289  
 ttgaaaaaac ttannaaaca attgaaaagt caaaaaacatt ttgaagagtt acatcttttg 120  
 atttattcag aaacaatcat ttgtaatcga ttaccaaata agtgtaattt attacacaag 180  
 gcttttatgt gaaaggatgt gactcttcac atttngaatt gaatttcaat gtccaaaggg 240  
 actggtaata gattacaaaa acattgtaat cgattacaaac ttntgaaat taattggaac 300  
 gtgtgaaatt cagtttgaaa accttttcan atccattgtg ctactggtaa tggattacaa 360  
 taatttggta atcgattaac agagagttaa aactctcttg taaacatgtt ttgagnanca 420  
 tcatgtgcta ct 482

<210> 14290  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14290

tctcgatata ttatgcgcct gaatcagact tccgtgtcaa aagttatgac catatgaatn 60  
 tctccactgt attccgtgtg acaagttatg accatttgaa tntctcgata gcattcgttg 120  
 ctcaatatcg agcgtctcga tatataatgc gcctgaatcg gacttccgtg tgacaagtta 180  
 tgaccacttg aatttgctga gagcatccgg tgatagattt cgagcatttc gatatattat 240  
 gggcctgaat cggacatccg tgtgacaaga tatggccata tgatattctc gagagcattc 300  
 gttgttcaat ttcgagcgtc ccgatatatg ctgcgcgcga atcggacttc cgtgtgacaa 360  
 gatatgacca tt 372

<210> 14291  
 <211> 384  
 <212> DNA  
 <213> Glycine max



tcccaatcac actgttgcaa acatttttct ccacatgcac aacatcaata caatgtctaa 300  
 cgtcaagatg acaccagtag ggaagatcaa agaaaatgga cctgctctct catatgcaac 360  
 tctgaacctat acctctctct tgtgtctctcc caaatac 397

<213> Glycine max

<223> unsure at all n locations

<400> 14294

ccttctctgtg tcttctntaa taaagatcta gtggtagaaa cccctactag tggttctgtg 60  
 ttaactctct atgtgtgttt gaattgtctt gtggagatat ctggcacaac attcttgatt 120  
 gatttgattt gtttgctctt gaaccacatt gatgttatto ttgatatgac ttggtctctt 180  
 tttagcagatg ttactggtaga ctgatttcac gaaagtgtgg ttggttcgatg attctggagt 240  
 gactaatgat atgtattcta tctctgcaaa cccagtctgt acatctctta aggaagatgc 300  
 tcaagtatac atgatcttgt ctagccagga agtacagaca aagggttcta tgtgtgaacc 360  
 tctt 364

<210> 14295

<211> 378

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14295

atctctcagag tcacctgagg catgcaagct tctggtggga catctngact tgccttccaa 60  
 tctgacattc accacagatt ctgccttctt ctattntoag attgggaatg cctctaacag 120  
 caactttgtc aatgatttct ttcattgctc ttaagtgcag atgtccaaat ctatgatggc 180  
 catatttgac ttcatcttct ntggaggata gacatgtgga ggagtaactg gttcttgacg 240  
 ggtcataggt aacagttgtc ctttgatctg ctgcccctca ttagaattc actcttctca 300  
 tttgtcacca agcattctga ctntgtgaa gttacattga atgcttctac acacaactga 360  
 ctgatgtga tcaagttt 378





atataatccc ggatggagga atcatcccaa ccttagatgg tegagtcctt cacaacagea 300  
 gaaacaacaa caacagcctt attntcataa tgetgtgtggc ccaagcagac catabatccc 360  
 tccaccaato cagcaacaa cacaacacaa acaaccccag aaacaa 407

<210> 14301  
 <211> 345  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14301

acttgggttac ttattccaa cgtcctcctc gtggccactg tagaggytga ctgaaccaca 60  
 attccactta attctacaag tcgcctcaat gagcgtgggt ccttatctgt acccccatta 120  
 ccagaagtag gaaattgagc ttccagtgga atcaatgttg caaaaggggc ttattagtc 180  
 gagtacaagt cttttctcgt cactagtgtt gctcctcang aaacatgatg acttttggcg 240  
 attttggctg gactatagag cactcaatgt ggtgactgtc tgtgactggg ttctatcct 300  
 caccatcgat gagcttctcg atgaattgng caaagcttgt tggatttoga aattggattt 360  
 attgcaaggt taccacata ttccgatgca ttccaccgac attgcaaaaa cagcatttcg 420  
 gacgcacctt gggcactat 439

<210> 14302  
 <211> 345  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14302

agctttctata gaagaatcat tcttaatttc tctacaattg cttcacctct caatgagctg 60  
 gtgaagaaga atgtggcatt taactggggt gaaaaacaag agcaagcctt tgctttgtct 120  
 aaagaaaagc ttactaggea cctgttctag ctcttctctga cttttctaaa aattttgagc 180  
 tagaatgtga tgcctctgga gtgggagtta gagctatctt gttacaaggt cggcacccta 240  
 tngattattt tagagaaaaa ttccatgggt ccacccctcaa ctaccccacc tatgataaag 300  
 agctntatga ttttaataaga gccttcgaa cttgggaaca ttatc 345

<210> 14303  
 <211> 322  
 <212> DNA  
 <213> Glycine max

<400> 14303

ttatttggtc tgcgaagatc gatctccttc catagcttc ttaggttggc ataatacgtt 180  
 taaatagatc tctcaccttg catgagctctg gtcactcttc tcttgagatc atatacttgc 240  
 gttgcatcac cgcctatcaaa gtatgtttga gcaatactat cccaaacaac cttagccgtc 300  
 aaaaatctat aaaaagttct ca 322

<210> 14304  
 <211> 267  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14304

caagtataga gntactatta tacactaaag ctccattaaa aactgaacca tgagtacata 60  
 atatactaca ttgctactgc attaaacatg ttattgggtat taaccaactc caggacctac 120  
 aggacccttt cctttatttg tgagaaaact agcgtaatat aatctagttc tataattaac 180  
 taaagagtta agataagcta tcccaaanac gcaatatctc cttcttatgt ctggtcaaca 240  
 agtgaattt ggattaacta agtgata 267

<210> 14305  
 <211> 477  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14305

cttgagtcac gcgatctctg agtcacctgc gggcatgcaa gcttgcaatg aaattaacat 60  
 aacaatgtat ttatatatgt gngacaaaat aatacaaana tgatatataa ttcttaatat 120  
 agaattgaca ttcatttggc ccaagttaaa tgcattttgg tagttattat atgaggcaag 180  
 gcttatgntt tcatcttctt aacatgtaaa attaacataa ttctttaaca ttccttttga 240

taaaattgta tatagtcatt tgtgtacaaa ttatttgcac ttatgtttca aatttgtact 300  
taggcattgga tegttaagatt acaaattctat tctttcatat tcgaaaagtt ctttcaatag 360  
tgcacotttaa aottatactg gagtgtataat aattaaaaat ttcattatta totgcaaaact 420  
tacttatac ttttaattt ttttctttt tttttttttt tttttttttt tttttttttt

<211> 374  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14306

aagcttccctt gataagctag aggggtgcta ctacacatctc tccaatagct aagttcaccc 60  
cgatgccaaa atacatgaaa aatacaaaaa gtctctctcta caaagaactac tcaaaatgcc 120  
ctaaaatata aggtataaaa cctattgtac tagggtaccc ttaacttgaa aggtagggtg 180  
cccttaattt tagcatacc ctataaaact aaaaattgcc aaaatacaag gccccaaaaga 240  
aggaaacctt attctaatat ttacaaagaa ngtyggctca tacttagccc atggggcccaa 300  
attctaccat aaggtctatg agaaccttaa ggtctttctac tgcatacttg gcccaatatt 360  
cttggagtct tata 374

<210> 14307  
<211> 426  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14307

getatgctga tatattacaa tagacctct caacctcagc agctaaatca accacaacag 60  
aacaattatg acctctccag caacagatac aaccttggat ggaggaatca ccttaacctc 120  
aatatggctca gccctcaaca acaacaacag cagcttgcct cttcctttca aaatgtctgt 180  
ggcccaagca gacctacat tcttcacca atccaacaac agcaacaacc ccagaaacaa 240  
ccaacagttg aggcaccttc acaaccttc ctogaagaac ttgtgaggca aatgaactatg 300  
caaaacatgt agtttcagca agagaccaga gcttncattc agagcttaac caatcagatg 360  
ggacgaatgg ctacccaatt gaatcaacaa cagtcctccag aatcttgaca gctacctct 420



caagct

426

<210> 14308  
<211> 323  
<212> DNA  
<213> Glycine max

atggtataat tttatattctt catttatata tnttgggtact ttataaaaaat attctatttaa 40  
ttttcttatt atcaatatta taaaaaataa aataataaga ttagtatcaa gttattttct 120  
tttttttttt ttattatttaa aaaatacatt attctatggg gagatttttt tattacacat 160  
ataaataaaa gaaaattctt gtgagagcaa tggcccttgc aaaattatac atgcacggcc 240  
aatgatcatt gtgcattgaaa tacttgaata gttattaatc ttgattgtct caatanaata 300  
attattaaa atttanagaa tcatttat 323

<210> 14309  
<211> 414  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14309

ttattttctt cctccatctc ccaatagcaa acttttatagc agacatgaga ttattccata 60  
aaataaaaaat atgatacaaa cttacaagtg tctatatggc ttcatagtca tctgctgcag 120  
gggctgnggg agcatcagct agagcagata acacaacaaa ggcaccaaatt aagattgtga 180  
taatggcagt gaagttgaca agcaaagcct cagaaccata tttgtccaat cctgagttct 240  
caaggaaagt gagcttctcc agatacccaa ggcagcagc gcccacagcc aagacatata 300  
caaacagccc atatagcgcg tgccaaggaa gtgaggcgcg tctaatgtct ggagtcaccac 360  
cagngaagaa taagatcaca aacccatata tccacttcag ggaaccaaca caat 414

<210> 14310  
<211> 397  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<400> 14310

tagtccctag cttagcccat aagggttttcg agatatgtct attgaactta gcctctctat 60  
ctaaacaaat ggtccctaggc aaaccatgga gcttcacaac ttcctgaag aagagttntg 120  
agatctcaga agcatcatca accctctcgc atggtaaaa gtaagccatc ttgctaaac 180  
gaggtctcgc cctcctcctc cctcctcctc cctcctcctc cctcctcctc 240  
gaggtctcgc cctcctcctc cctcctcctc cctcctcctc cctcctcctc 300  
cttctctcat atgggaccaa tagaactctt ctatgag 397

<410> 14311

<411> 364

<412> DNA

<413> Glycine max

<423> unsure at all n locations

<430> 14311

taogtgcttc tactcctatt gaaaatgtgt tgctagtata aggtttgaaa catagtttat 60  
taagcgttag tcaattatga gataaaggat ataaagtatc tottgattct gaaaaatgtg 120  
ttattaagca tgagcatgac aaacatattg aacatacagg ttttagagaa tataatgtct 180  
acatgattga tctacaacac aaatctataa atgataaatg ctctntaagt aaagattgtg 240  
atccatgggt atggcataag agaattgtct atattaacat ggatcctcta aatagggtta 300  
tttcacaaga tctagttatt ggactgcta tattaatatt tgaacaagat aagttatgtg 360  
atgc 364

<410> 14312

<411> 331

<412> DNA

<413> Glycine max

<423> unsure at all n locations

<430> 14312

adagttgatg tttctgtat ggatgggaac tcangcggat gaagcttttt ctgaggettg 60  
gnaaccagat gcacagagg ctagtggiga aaacattgct cacactcgtt ccaaggtata 120  
tattctctct aagcttttgt atcttagaat taatgtgatt caagcccagg atttgttct 180

aacaaacaag agtggcaata ataactegga aattttcacc caaggtggtt tggggaactt 240  
ggctctgagg agcgtttcta taaagtgtag tacaagcccc tegtgggaatg aggatatgat 300  
gttcgttctg gcagaacctt ttgatgattg c 331

<223> unsure at all n. locations  
<400> 14313

tgagaaaaat gagatgacat taactnitta ctgggatgtc ttattgaatc cgttaatata 60  
tcgtacact cgtatttgat aatataggt ctgagcaaaa taaaacgaca ataactttca 120  
atacggatgt ccgaatgaat cctgtaatat atcgagacgc tcgtatttga aaacggaagc 180  
tcgagcaaaa taaaacgac gataacattt tactcggatg tcgtattgtg tcccgtagta 240  
tatcgagacg cctgaaattt ataatagaag ctctgagcag tatcaaaaga caataactnt 300  
ttaactggat gtcgattgt atcccgtagt gtatcgagaa gctc 344

<210> 14314  
<211> 392  
<212> DNA  
<213> Glycine max

<400> 14314  
ctattccaag ttcattaacc ataccttctg tctagatttc ttccttcaact ccttcagcta 60  
gggccatgta ttctgcttca gttgttgaaa gagcaacaac tgattgttgt accaaacaaa 120  
gtaaacacat atcctgttaa ggatttcctt gtgtctacat ttcctgcaaa atctgcactc 180  
acatagcttg tgattgttgc ctcttctgct gtcttcttct accttaatec aacttgcaaa 240  
gatccattta gataccttag tgcacacttc atagcttccc agtgtgcaact gccaggatct 300  
cccatgaatc tgcttattat gcttacagca tgagccaagt caggtctgct gcataccatt 360  
ccatacatta tgcctccaac accactggca ta 392

<210> 14315  
<211> 420  
<212> DNA  
<213> Glycine max





caacagaa

248

<210> 14320  
<211> 397  
<212> DNA  
<213> Glycine max

atcttgaaac tctggggagg gaggataac tgagactcta ttaaaagata tgaactttg  
ttagttgtgg aatgcacaca cacatacaca caaacaatca gtacagataa tgaaaatcat 120  
tgggcatad aatgcatttg acataccta gaaagctatc aaatatcttt caaagagtat 180  
aatgcaaaaag cttcatagca tttccggata atttcgtgtg taaatgctgc atcataatc 240  
aatactgaca aaaactgcac cacaacaaac tcagaacctc caaatgcatt attacattct 300  
atttcaaaaga agaaacaaaa aatgaaaaa ctaagaacct gattatcaat tatgtacaga 360  
tagctgaaaa tgcctagtatt aatgcttcta gtaactca 397

<210> 14321  
<211> 409  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14321

tcttctctgg gttcttcggg ggaagatgat gaatgggaaa cagtggggcc gaagaataaa 60  
tatactgtta caaggactca aagctttctc ccacagaat taagtgggtat ttttgaggga 120  
caacttanaa gtttgggtgag actaaaggta caaaacaact ctataatata ttagtgaagg 180  
gatttttttt gttttaaatg tcaacttcac taagattttg ggaaatttca ttgaccagt 240  
ctgttgcttc gtgctgatat tcttcaaaga aaaaatgaac atgtaataa agtatgtatt 300  
atataaaaaa aacattatgg ccattggcac gattttcttt tgcatttaa gaaatagagc 360  
nctgctact gttcaacct atctctggct ccatttgac atctatct 409

<210> 14322  
<211> 359  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
 <400> 14322

```

ccaagctnt anaagattgg ctaagatttt gttaanacat aagcacttag acaatgaagg 60
aaagtggag ttggtgcaca tgatgtccaa cgttatgtca aagaataaga tggggctgca 120
tgaatgata gataatgata gataatgata gataatgata gataatgata gataatgata
tgaatgata gataatgata gataatgata gataatgata gataatgata gataatgata
tgaatgata gataatgata gataatgata gataatgata gataatgata gataatgata
tgaatgata gataatgata gataatgata gataatgata gataatgata gataatgata 304

```

<210> 14323  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14323

```

agcttgcaat ccaaggttag gaaactgagc gaatcgcga tectgtgtcc ctgagaagaa 60
ccacttgaaa aaaccccaca tgaaactgat ggaaaaatac ttcaagaacc caccaacttg 120
cttccctgaaa tacaagataa ttaatcaact caatcattat ctntaattaa atgattaatt 180
attaggacaa ctataatcc agttccctaa ctgttttttg tgttgatttt tccagccaga 240
attgaagttt tacttcagta acctgtatta atccttaata ctacaaaact attataactc 300
taactttaat tgggttacca atatcaaaat taaaaattat catatcaatt ttattntaaa 360
ttaanaagaa caagaatntt gatgactcaa tgagaggagt a 401

```

<210> 14324  
 <211> 256  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14324

```

agggtcaag atcttcttc tgcctcttc catcttttg ttgaaattgc tcttgagggg 60
aatggaagaa ggatatgtg ctctctctca gaatcactg catacaaat gtaggaactt 120
accttacat ttgccaatc tatctttctg gactagagt aggttgggca ggttccattg 180
cggatgacga agatgttgtt ggttgagggc cttagactg ccttccgac ctcaatgcaa 240

```

tgacacctca catttt

256

<210> 14325  
<211> 410  
<212> DNA  
<213> Glycine max

actctttac tatagatga tgcagctgag ttgttagcta cctcatgca tctcttaag 60  
attatgggat catctctgga gctaaactgc tgagagttgg aagccatctt ctcaattaaa 120  
ttcttggttt cagtaggagt catgtctcca agggctccac cactggcaga atctatcata 180  
ctctctctca tatlaactgag tcttccataa aaatattgga gaagaagttg ttctgaaatc 240  
tgatgggtggg ggcaactagc acatagtctc ttaaactctc cccagtactc attcaggtct 300  
ctctcattga gatgtctaat acctgagata tcttctctga tggctgtggt cctggaagca 360  
gggaaaattt ttcttaagaa tactctctta aggtcctccc aactcgtgat 410

<210> 14326  
<211> 454  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14326

agctatgagc anattcaaac gacaataact ctttactcgg atgtctgatt gagtctctga 60  
atatatcgag acctctgaaa tggaaatccg aagctctgag caaattttaa cgacaataac 120  
cttttactc ggatgtctga ttgagtcctg taatatatcg agatgctaga aattgaatgt 180  
tgaagctctg atcaaatcca aacaacaata accttttact ctgatgtccg attgagtcct 240  
gtaatatatc gagacgctcg aaatggaata ccgaagccct gagcaaattc aaactacaat 300  
aactttttac tggatgtctc gattgagtcg cgtaatatat cgaacagctc gaaattgaat 360  
gtagaagctt tgagcaaatc catacgaaca atactcttta ctgggatggg ctgatgagtc 420  
ccgtaatata tggagacgct cgaatgaat accg 454

<210> 14327  
<211> 305  
<212> DNA



<213> Glycine max

<400> 14327

atccttagagt cgaatgcgct cgtggaatga caagagcttc agaatttgat tcttaccttt 60  
cttcgggagg ccatgggac ttaetgagga aagctcagaa atgacaacgg agcttcgaca 120  
cttcgggagg ccatgggac ttaetgagga aagctcagaa atgacaacgg agcttcgaca 180  
atctccgatt tgggaaaata atatctcgag atgctcaaaa ataaacaacg gaatctctag 300  
agaaa 305

<210> 14318

<211> 319

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14328

agctngaato agacatcgt gtgagaagtt attgtccatt gaattttctca agagcttcog 60  
tagttcaatt cagagcttct cgacatatta tgcgcncgaa cgggacatcc gtgtgaaaag 120  
atatgaccat ttgaatatct cgagagctta cgatgtttaa ttccgagtgt atogatatat 180  
tntaaacctg aatcggacct cagtgtgaaa agttatgaat atttgcattt ccggagagat 240  
tncgatgntt tatttcgagc gtatctatat attataagcc tcaatcggac atcctgtgtg 300  
aaagttatga ccatttgaa 319

<210> 14329

<211> 405

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14329

agcttgcctt tcaactcatt cttatacag ataaagtact tagttagaat gaggggacac 60  
ctgacacact caaactaagt acccctcttg acaacatatt cacatatnt atacagacag 120  
tcttgacctt caacatatat ggacaatgag aatcactcag ccgtgattat caaccaataaa 180  
ctcacttaag gataattract tgattagaag tgtctaagca tgattagaag gtgtattaca 240

caactggtaa tcagccattg cagcagcaact tcacttctct tttgaagtat gcaactatcc 300  
 aacactatta gaaaatatgc ttctacac tcnggtatttat gactttcaac atcggttttt 360  
 gaacgatgt tgaaagtaac gacgttgata gtattatgt taaca 405

<209> 14331  
 <210> 308  
 <211> DNA  
 <212> Glycine max

<203> unsure at all n locations  
 <400> 14330

cattgaaggt ngaagcgact tccaatatat atgcattgat ctgtttgttg ncaattggat 60  
 tcaaatgttt ttgcgttagg tctcaaccaa gttatctgtt gggcttcaat caagagaagg 120  
 tagctatttt gaaggttttag atctctacac atgatatttt cattgtacaa gattttttta 180  
 atagacaaat aaaaatatata ttatataagt aaaagaattc ttggcaggatc atgaataatt 240  
 ccccaacgac cccagggcac tagaccccta attaacggca ttgggaaaga ttntagtcac 300  
 agaaattatt taatttaatt taatttataa aacaaatggt ctannatata aagttaatga 360  
 tcttaattta tactatatnt aattataatc aacattttct taagttatgt taacatcatg 420  
 ataatgagat cacttaatta ttcttgatgt 450

<210> 14331  
 <211> 308  
 <212> DNA  
 <213> Glycine max

<400> 14331

agctgggcag caagggagat aaatcataac ttctttttaa tctaaagatg ttgtttccac 60  
 ttccagacca ttgtaggtat tgcacacgga tctatttgga ccaacctgaa cattgagttt 120  
 gggaggaaag aaatatgatt ttccatagtt gatgactatt caagataaac ttgggtatac 180  
 tttttctca taattatgag tctttcaagg gcttttaaat attttgtaaa agagttcaca 240  
 atgaacaaaga cttttgtatc tcttttatta gccatgacac tgagtttgaa catggtgaga 300  
 tcagatca 308

<210> 14332  
 <211> 343



caattatgac ctttccagca acagatacaa ccttggatgg aggaatcacc ctaacctcag 180  
atgggtgcagc cctcagcaac aacaaca 207

<210> 14335

<211> 321

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14335

gttngtcacc ccacaaatga caattccctt tatttttttg ataaantttg ccgcctctag 60  
gtatttggag gttttcttga gtcaaaaaga atttggccta catcgggtcc aatgttaaca 120  
caaacactcc attatcaagg gtgagaacaa agattattga gctagaatac atgcacgaac 180  
cagctgcaag aaaggtgctt cggggttggc acacgttcac aacacatctt tgttctgttg 240  
tgtcatgtg caaattagca tatgcctcac attaagcact gaattcacta acaatccttt 300  
gtgcaattgt ctataactct ctcttttaag atagtgatta ggaggagggt ggaagctcct 360  
tccatgatca aggttaatact t 381

<210> 14336

<211> 462

<212> DNA

<213> Glycine max

<223> unsure at all n locations  
<400> 14336

tttattaact cccaaagctt gcanaggatg ctgggtaggg taggagaatc aaaatccatg 60  
gagcaatgca caactatgat tggccactct gatttgaatg gagatggcct gctttgcttt 120  
gatgaattta gagtcatgat gcagcgatga gtctttgtct ttaattgatt taatggggga 180  
tggggttgaa ttccattcat ttattgttaa tttagattta aatcttgtgt gatgcacgaa 240  
ttctattaca ttatatattn ttctatattt atataaaaat gaatatgcac taataaaaatt 300  
aaatcttata atacttatta gaatataaat gtaattatad taaaattgag aaatataatg 360  
attttaattg ccagatgtat taatataagt ctaatgaatt attttatgtt aaaaagttgg 420  
ttgaactgtn tgacatttaa ctcaatgtan atttacaaca ca 462

<210> 14337

<I11> 240  
 <I12> DNA  
 <I13> Glycine max

<I23> unsure at all n locations  
 <I400> 14337

gagcagcttggc cttgatcttc tttattaata tagtcttting cttcttgaag atcaatggaa 60  
 gtggaataga gaatgaggaa aggtgattgg agatgccact ttaaggagaa gatgagtcac 120  
 gaacatgctc actaccatag gaagccatgg ataatagctt gaaggtagga gaatatgagt 180

acctatgacc atttgaattt ctgaaaagct tccgttggtc aattatgagg atctcaatat 240

<I10> 14338  
 <I11> 430  
 <I12> DNA  
 <I13> Glycine max

<I23> unsure at all n locations  
 <I400> 14338

tcgagcttgt ggattaaatt atattttttt atatatagca taacaacggc taataatgct 60  
 aattatttaa ccactaaca tttaatcatt gaattacaat gtgttatcca tttactaagn 120  
 tattcattta caacccatcc catcatatat attatgtttg gtgtctatta tataatatta 180  
 agaataattt tataagtcac atgataatta tttattattg aatgataatt taaaattatt 240  
 ttacattatt taagcatgat tattaaatac tagatatttg tttatgaatt tatatattaa 300  
 ataaagtgat acgatcacac ttgattttat gtcatgaatt cgattaatto actgatttaa 360  
 ttaacacaaa aatatttata atatgctaca cgcacacgac tcattgatta cacctacaag 420  
 aaaatacata 430

<I10> 14339  
 <I11> 359  
 <I12> DNA  
 <I13> Glycine max

<I23> unsure at all n locations  
 <I400> 14339

gcttgtaggc cttgatcttc tttattaata tagtcttting cttcttgaag atcaatggaa 60  
 gtggaataga gaatgaggaa aggtgattgg agatgccact ttaaggagaa gatgagtcac 120  
 gaacatgctc actaccatag gaagccatgg ataatagctt gaaggtagga gaatatgagt 180

ggagggagag gatatagagg gggaacaaaa tttatgcctc agatgaggtc agaactttga 240  
 agtotaattt ctcnatgat caaagttgaa aaaattcaca cacaaggcct ctatttatag 300  
 cctaagtgtc acacaaaaatt ggaggggaag attgaattct attcaaatct atottgaat 359

<213> Glycine max

<400> 14340

gtttctcgat atgttatgag tctgaattct ttatgcgagt gaaaaattat gaccatctta 60  
 attcccgag agctctcggt gtccaatatt ctagcatctc gatacgttat gtgcctgaat 120  
 ccgacatgag agtgaaaaga tatgaccatt tgaatttctt gagagcttcc gttgttaaat 180  
 ctctagcgat tccatcgtct atggcgctac attgaacatg ccagtgaaaa gttatgacca 240  
 ttttaatttc ccgagagact ccgggtgtca aattcgagcg tcttgatatg gtatgcgctt 300  
 gaatcggaca tgcgcatgaa aagttatg 359

<210> 14341

<211> 491

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14341

ctgcagctga agagtttggc ttacatgcc ttactccctt aagtagtatt tgtattgggt 60  
 atttatattga atgttacatc ttagtccata tcatatcttt tgttcacat gcacatcat 120  
 gagtgatgca atctacccc ccaagagcat tggatagaag actccaagaa gattggggca 180  
 gagatgccag agaaggcccc agggttctca tgagccttag ggtagatttc gggcccatgg 240  
 gctaagtatg agcccactta tctttgtaca tatttatatta aggtttcatt atatttgggc 300  
 ctcttattta gggcttcata gtgtaggaga ggtaccctag taatgttaga attttaagcc 360  
 ctcttattta nggcttcctg gtatgtcttg atgggttaat ccgatattgcc tatataatcg 420  
 atacacaact attttggaca tgaactgaatn ttcaggagct ctccatcgat atatgtatat 480  
 atcgatactt a 491

<210> 14342  
 <211> 304  
 <112> DNA  
 <113> Glycine max

<223> unsure at all n locations  
 <400> 14342

ttgattgat ttctctgagt gatttgaca aacdaaggca ttgtttcana gaggagaatg 120  
 gagttctaaa ggtctctaaag tgctccataa tatccatgaa agggatgcaa aagaatggct 180  
 ttattctctt gattggagaa gtgatgattg gatcagctgt tgcagttctt gtcaaaaggg 240  
 tttcaaaagac tgaactatgg cacagaaggt tangacatgt gaggagagg gggttgattg 300  
 auct 304

<110> 14343  
 <111> 372  
 <112> DNA  
 <113> Glycine max

<223> unsure at all n locations  
 <400> 14343

atgtcttaga tctcaacgac actcttgatt gcaaatctac ttttcttatt atcaattccc 60  
 atacaaatct cttagtcatt ctactagtat atgtagatga catcactcta tcaggggcca 120  
 atattgtctt cgtacaagct gttcagacca aattacagtc tctgttcaat tgaagatcca 180  
 tgagcctttg aaatattctc ttggcttaga aatagtcaaa ttcaacagag gcattctact 240  
 atcccaacga anatatgttc tatctctctn ggaagataca ggtttcttgg cctgcaaacc 300  
 tctcaattta ccaatggatc ccaatctgag actcaattct catgatagag actctactcc 360  
 tgatecatca at 372

<110> 14344  
 <111> 378  
 <112> DNA  
 <113> Glycine max

<223> unsure at all n locations  
 <400> 14344

gcatgagagc tagcacatat ataagtatat caggctgaca ttgttctgct aaatgtgaca 60

tgttttgata aattcccaat aagcacggat aaaagaaaat aaattaaatt aaatgttttt 120  
 gacatattaa aattaaacta tgcacatatt aatttataaa atctctgtca ttaactttct 150  
 tcaaaagact ttgacttgt ttataaacta attntaattt atggaaaaaa ttaattttat 240  
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt  
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt  
 aadacttact ggttttca 378

<210> 14345  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<221> unsure at all n locations  
 <400> 14345

agcttctagt tggcattgat tcttgggtga ttcttttaac aacttcattgt accgctcaac 60  
 tggatcacac caccgtaaaa aaaaggacca cataacccaa tctccctaac aagatgaaca 120  
 attaagtga ccatctatgtt aaaaaatgat ggaggaaaaat acatctctaa ttgacaaagg 180  
 acaatgacag cctcattctc canatcatct aattgtcgag ggttgatgac tntgctatag 240  
 atagtattaa aaacaaagca canatgagtt atggcaaccc taacgttggt aggcaggata 300  
 ccccgcatcg ctacagccaa tagttgggtgc attaagaagt gacaatcaca agactttcaa 360  
 gcggaccaat tgagatca 378

<210> 14346  
 <211> 496  
 <212> DNA  
 <213> Glycine max

<221> unsure at all n locations  
 <400> 14346

gcttctttaga ctggatcacc ctctctacac tegtgttang tgtaacctcc aagaacacat 60  
 gatcaccat ttctaacctt agcgyctcnc atcgcttacc catataagac ttctnacctt 120  
 ctgttcattg tngcatcctt ttctgaatta agttgatctt ctctatagtt ggttgtaagg 180  
 actcagccc cacaaccatg ttccaccat cttgatacca acaaagagat gtctacacc 240  
 tctatctag catgattgtn gtangtgaat tccacaacag gtagaacctc ttccaccatc 300



ccaaggtgat caaagacaca agccctcaac anatecteta atgataggat ctteectettg 360  
gaatgcacat negttgatcg aggcctgacc cgaatcanat aaaaattaan aatgtagtat 420  
ctaggaagtg atcttangtc atctcccaac gagcaatggt caatcaaaac ttcataacag 480  
14344

<211> 498  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14347

agcttgaata aatatattat tcaattttta tatttatattt tcataaaaaa gaaaaaaaaa 60  
gcacatcacc ttaattgttt ataaacaaat attaaataaa taaaatgcac gaattaatat 120  
tcactatctt aaaaacattt aatattttta ttttaataaga ttaattaaaa aaatgttaact 180  
ataagtagat ctagaattat gttttattag aattatatac aaatccttcc aatgaattag 240  
aatcataatg gcaagagacc aactttngtt attttttctt caaaataata aaatataaaa 300  
aattattcaa attattttaa taacattttat tgtattttaa attaanaatn gattcaccag 360  
ttaaccogtt atccacaga cccacttaac ctangagtg catacatann atattgatcc 420  
aaogtgcac atttatatat ttgaagaaat ataactcatat tanaaaattt aatttatctt 480  
acaattgtgt attttata 498

<210> 14348  
<211> 277  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14348

agcttcacat gtccaatatt gggcgtctat tatattatgt gcgtgagtcg gacctctgag 60  
aganaageta tgaccatttg aatgcgtcaa tagctttcac tatcaatttc gagcgtctcg 120  
atatattata cgcctgaatc ggacctcaga gtgaaaagga atgaccattt gaattttctc 180  
agagctctcg ttgtcaatt tggagcgtct cgatattctc ttgcctgaa tcggacctcc 240  
gagtaaaagt catgaccatt agaattatct gagagct 277

<210> 14349  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<214> 14349  
 <215> 14349

atggttaagat ggaagtcaca cccaccacag gattctttat gggatatgga gatggagtea 120  
 aaggattata agtctgggtct tcctctgaaa gaaaggccat tctgagttaga gatgtcatct 180  
 ttgacaaaat cctctatgttg cattcaaaat tcaatgaaga attggggcaaa gctaacgatg 240  
 tcaattaagca ggtggattnt gatagctcta caataaaaaa acataagcaa ttaggatctt 300  
 caaatgcacc ttaacatca aaacacaaca ccagttaagg cgattgactg gacgagtcac 360  
 aacatctcat agaagctag aaccacaaca cccagataga cataaaggca tatcacagct 420  
 .  
 cttgaaagat atgattctga gatagtgtc 449

<210> 14350  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14350

agcttcaaca tcagactcct tncaggtgct ttaactactt cacatggact tgatggggcc 60  
 tatgcatggt gaaagccttg gaggaagag gtatgcctat gttgttgtgg atgatttctc 120  
 cagatttacc tgcgtcaact ttatcagaga gaaatcagaa acctttgaag tattcaaaga 180  
 gttgagtcta agacttcaaa gagaaaagga tctgttcac aagagaatca tgagtgaaca 240  
 tggcagagaa ttgaaaaca gcaggttcac tgaattctgc acatctgaag gcatactca 300  
 taagttctct gcagccatta caccacaaca gaatggcata ttgaaagga aaacaggac 359

<210> 14351  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 14351

catggaagcc ttttttagtg tttaaaaaaaa ttgagttgta ctatattatt tctagatgto 60

ataaattaat atcagcaagt cattaagata acaatatgt gattagcaat taattaaatt 120

tattagccaa ttttcacgtt tagcttaatt atcttgcac aatccgcaat cctcccttca 180

atttctgtac atttctatta attgactatc atcttgcac atttctatta atttctatta 240

atttctatta atttctatta atttctatta atttctatta atttctatta atttctatta 300

ttaaaggcaat ttttcagatga atttcagatg atattggaaat aaaaattagt aaatacataa 360

ctactaanna attataaaaat ttaaagtaag tgcgaagttt agtataaaaa atac 414

<210> 14352

<211> 415

<212> DNA

<213> Glycine max

<221> unsure at all n locations

<400> 14352

agtcacctgc ggcattgcaag ctngcataca agattctctt tgcctggcac ttcaaaaact 60

tcttggtggg tcatatagat gtcttctctt aaatcccat gcaagaatgc agttntaaca 120

tctaaactgtt ccaagtgaag attctctgca gctactatgc tcagaataac tctgatggta 180

gtcatcttta caactggaga gaagatctct gtgaaatcaa ttctctgttt ctgctgaaac 240

cctttcacca caagtctctg ctgttatctt cttctacgtt cagattcttt ctttagccta 300

tagaccacac tattctgtaa tgccttcttt ccttctggca atttagttaa agaccacgtc 360

ttattctctt gaagggatgt catctcatct ttcatogeta gctccacact aatag 415

<210> 14353

<211> 410

<212> DNA

<213> Glycine max

<221> unsure at all n locations

<400> 14353

agcttagact gagttcagcc taccatctct ataactgatc ccaaaactgaa cggaccattc 60

agtcgttggg ggacctttta agagcatgtg tcttatagca gaaggggaagc tgggagaatt 120

ttctccattt atagaggttc acttataata acagttttca ctctaccatt ggcattggct 180

octatgaagc tttgaatggt agaaggtgta cgacacccct atgttggtta gageccgcag 240  
aaggccctcat tntagtgatg tggcaccatt ttctctctatt ttctaaaccc tttttacacc 300  
actttaatta ctgattgggc ttaattgtca attaattagg cagttttatt atttggtctc 360  
atttaaccta atttaattgc taattcaatt tcaaaactta atgaaaatt 420

<212> DNA  
<213> Glycine max

<400> 14354

aatgagttta tgagcaactt aggatcaaaa agatgtgaca tggaccattg ctactatgtt 60  
gagaaatata ctaatatgta tggatccctt gtctgtgatg ttgatgacat gttgattaca 120  
ggatctagta tgatagaaat taatagtttg aagcaatatg tggcagaaaa ctatgaaatg 180  
aaggatcttg gtccacctat acaaatccctt ggtatgagaa ttcttagaaa cagatcacaa 240  
tgaattttga agtt 254

<210> 14355  
<211> 341  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14355

agctntcaac gtattagaca gggcaatata ctttcttcac agagctgggc aatgtactaa 60  
gtgtactttg ttaaactatt taagtagagt tgtaaacggt tgattgctag ctgaaaagtt 120  
tatttagcta ttcgataaat aaatttttag taacttttaa tatttttaca caccattnga 180  
agcaatatta tctagaatat taatatttaa aatctaactg tctatattga tatatcttta 240  
ttatcaatat atttattcat atgctttgat atctctttta aaaaaatcat gatatcattt 300  
cttgtatcat tgcataaatc ttaactatct taataattaa t 341

<210> 14356  
<211> 379  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

```

<400>          14356
tgcagctgca gcttacaaca gattttgttt gacctctttt cctacaatta aaataactct    60
ttctctcttc aigtgttttc ctctcttttc cactctcaag tgttgtgtgc acctttttct   120
tggctctttt cttctgaaca agattctctc tcaattctct tttatctctc cacacttctc   180
cctctctctc cttctctc cttctctc cttctctc cttctctc cttctctc   240
cctctctc cttctctc cttctctc cttctctc cttctctc cttctctc   300
tggctcctat ggaacaacat cacaaagtao cttatcattg tattctcaat agaaaagctc   360
acttacactg ctgctctca

```

```

<210>      14353
<211>      467
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      14353

ataaaattca gatttcagag ctcttttaga gcacannaat tgggtgctctt ctcttctctt    60
cccttcattc atctctctct tctctcaagt tcttattcat ggctctctat ggtgggtgagc   120
ttctttctaga ctctatctttt ccttggaagtg gcattctctc tctctctctc ttctcgattt   180
ctatgccatt catattccaa gaagcacaagc aatccattga tgaagaagat cctagggcta   240

```

caagctccaa tggagettac atcatgtggt atcaagagca tcttcatcta ggtgatgctc 300  
 ttttgctccc tctatctttt tggtaggtga attatcttta attccttgc tttcatctta 360  
 tcttcacgtg atatctcca ttgtctgtg gtttgggtgc atttagagta aattataaaa 420  
 aataaaccaa ttaattctta gatctacact tgtcttggca tttctat 480

<212> DNA  
 <213> Glycine max

<400> 14359

ttaattctg acctgaacaa cacatctcca atcaattcat atggttttgt gacagagcga 60  
 ttaacaaact ggaggtgat gcatgtgggc attatctcta tctctacaag tcttgcacac 120  
 atggagagag gcattaaatt gatactagct cccaagtcta tgagagcttt aaccacaaca 180  
 aactaaccaa tagaacaga tatactgana ctctcaggat ctttgtgctt cgggggaagg 240  
 atggtttgaa tgaccacact atagttacct cccacaacta ttgtgtcact gtggatatac 300  
 cggttattct ttgtcagcat gtcttttaaa aatttggcat agagtggcat ctgtttggaga 360  
 gcttctccaa aaggcaaat gatcttcac ctc 393

<210> 14360  
 <211> 316  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14360

tcttgtcttg aatcaacaca tcttcaatca cttcatatgg tcttgtgaca gagcgatcaa 60  
 ccaactggag ggtcatgcat gtgggcatta tctctatctc tccaagtctc cgacacatgg 120  
 agagagggcat taaattgata ctagctccca agtctatgag agctttaccc acaacaacct 180  
 caccataga acacgatata ctgacacatt caggatcttt gtgcttengg ggaaggatgc 240  
 gattgaatgac cacactatag atacttcca caactattgt gtcactggcg atataccggt 300  
 tattctgtgt caaat 316

<210> 14361  
 <211> 267

<212> DNA  
 <213> Glycine max

<400> 14361

tgactgctgg agtgcgtgca ctatagtgcc aacgttatgc taacgaatag atcgggctgc 60

atcgttatgc taacgaatag atcgggctgc taacgaatag atcgggctgc 120

atcgttatgc taacgaatag atcgggctgc taacgaatag atcgggctgc 180

ttgtaacaga tcattggcga attagcaca gattagatga tctatctgta cgaacgaatt 240

ctatgatatg tgacgtgtga agtacaa 267

<212> 14362  
 <213> 331  
 <212> DNA  
 <213> Glycine max

<214> unsure at all n locations

<400> 14362

ctctcgtact taagaggtat tttatatagt cattgaaaat tgtgatgttg gtnttatgga 60

acaacaatct aattaggaga tagagaaaaa gatatagacc attaactgca gttattctaa 120

aaaaaatacc tctatagtga tggggattgt agttgttcta aaattaagta ttattctata 180

ttgatactct agatgttaaa tattaattta aaaatataaa atgtttaaaa attctacatt 240

attgtcttat aattgtttaga agataaaaact aatttattta aataaatttc acagtcacaa 300

ttctctgaaa tgttctctga tatataaatg tctaataaat aaaccaaata caacaatcaa 360

ctgcagagaa cccaacaat g 381

<210> 14363  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<400> 14363

tctccacttg taactggggc cttaaattata tagcatgggt tacaacttgt gaagagcttc 60

cttggccttc ttgtttctag cctgggcat aggtcctcca agtccttata aaggttcttc 120

gtcttgctct catcactctc cccctcttca aaaggatttg tctcacaatc ggcttctcca 180

tatacatcaa aaagagthaa gtcagacaca ctaaatattg tactcacatt atactcaccg 240

ggcaattcaa ttttgytaagc attgccattt atccttttcaa gtaattgaaa tggaccatcc 300  
 cctcttgggtt gaagcttgga ttacctttgc tccggaaaac cctcctttct catgtgaacc 360  
 caaaaaccaat ctttgggttg gaaaacaacc attttgcgcc ccttggttga tgttagcata 420  
 ctct 484

<210> DNA  
 <211> Glycine max

<400> 14364

ttcttcttta tatcatcaat ccttcattat ctacaagaag gtccacctgc atgaaatttt 60  
 ctgctaggaa gctctctctt ttgtgcgact atgtcatctt cttctctcag tgtagaagca 120  
 agcttgacag gttcaggtgc aggtgctgct actagtggag gcaattgaat ctgggttggca 180  
 gaacttaagg tcatgggaact cacattcttt ggattcttga tagcttgtga aggcaattcg 240  
 ctagaatatt gggactgagc ttgattcaac tgagttagca ctgcccccat ctgatatgtc 300  
 caactctaaa tgggaagctct tgtctcttgc tgaaattgca tattctggat ggtcatatgc 360  
 ctcaactaact ct 372

<210> 14365  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<400> 14365

tgcgaagctga tgattacatc tcccccttc tattcttatt cttcttgata tcatcaaat 60  
 cttcatgata ccgaactcgtt ggtggaggat gcatgaatga caatcaattc atggggctcc 120  
 gaataaaaagt ggagaatgga ggataggcga agagcgtac gcaatcaatt ccgggggtctc 180  
 ccgaactcgtt ggtggaggat gaatgagtga cttcatctc atggggctcc gaataatagt 240  
 ggagaatgca cgataagaga atatcgttaa agcgtcaatt ccgggggctg catactcgac 300  
 tgtgggaaga agcaaaaatg acaatgatct catatggcta ctaataaaaag tgggtcaatgg 360  
 agaataggcg aggagcgtct 379

<210> 14366



```

s425>      unsure at all n locations
s400>      14366

```

tttcaaat tttgttttg tttgtttgagc ccatctataa acatgttcaa ttgaatttggc	180
tcagaggatc catgtgttggg agtctttctc aacataacct agaacctctc caatgtctca	240
ttcaaggatt catcagggaa ctggtgaaat gatgaaatag cagctctctc ttctgcagtc	300
tttgactcgg ggaagtatct cttcataaat ttataaccaa cttctctcca cgtcttcaga	360
cgtttacct tjaatgaata gagccatttc ttgtctcttc ctgcacaaaga aaatgagaat	420
acattgagcc taatggcttc atcttgcatt actgctatct tcacagtgtt acaaattctc	480
atgtaca	487

<210>	14367
<211>	449
<212>	DNA
<213>	Glycine max

```
<.23>      unsure at all n locations
<400>      14367
```

agcintatcg tcaccaaaga ttggtatttt attcttcatt tacaaaagtc ttgttatgct	60
ctttcaagac cctattcttc gatatttttg gggtactttc cttgactaaa gcttcgtgac	120
gaactatgta cgaacataact tcattactgt tattcagtat atacaaatga gcttggtgca	180
attctttctag acttggagtg ataacagata gtcccttga acccttacct ctactctct	240
cgttatgcca agaacttogg aaccaaatag gtattttctt ttccatgtac tgggaacaaa	300
actcaataga ttcttcggca atgtaccttt caacaataga tgcttcaaga cagtgtagat	360
ttcttggtga tctttttaag attctcatgt atcgttcaac taggtacatc catcgcaaat	420
aaacacgacc acaacattta atttccctc	449

1213	14368
1211	333
1212	DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14368

cttgagccaa ttcanaagac aantaacttt tactcggacg tctgatttag tcccgccata 60

ctctgagcgc tctcagattat aatctgaaat ctctcagcgc attgcaattt gatttctt 120

ctctcagcgc tctcagattat aatctgaaat ctctcagcgc attgcaattt gatttctt 180

ctctgtgaca aattcaaacg acaataactt ttctctggga tctctcattg agtctctgca 240

tatctcgaga cgcctcgaaat tgtatgttga agctctgtac caattcaaac aacactaact 300

tgtctactgg atgtctagatt gagatccgtc ata 360

<110> 14369

<111> 367

<112> DNA

<113> Glycine max

<400> 14369

agcttcccaa gttttaagtt attcctcttt tctgtcctaa gcaaagttcc aaaagtccca 60

ttaacaactt cggcttgccc atcggtttgt gggtgacaag tgggttgaaaa taacaattta 120

gtgcccactt tgcctccaaa agtctcccaa aaatgcaaat catcaagcct aggtatagga 180

tgcttatatt taatggtgat gttattaagg gctctacaat cagaacacat gcgccatgtc 240

ccatcctttt tagggaccaaa aatcactggg acagcacaag gactcatact atctcttacc 300

caaccttttg taatgagttc atccacttgt ctttgaatct ctttggtttc ttgtgaatta 360

cttctat 367

<110> 14370

<111> 415

<112> DNA

<113> Glycine max

<400> 14370

gaactacaat ggaaccacca ttatatttcg ccaagaacac acatcctgag tggaaccagg 60

ttttcgccct ctctgaaggac cggcttcagg cctctatgct ggaggttaat gtgatagata 120

aggatgttct gaaggatgac ctcatcggcc ggggtgtggt tgacctgaat gagatcccca 180

aaagggtacc tccggataga cctctggctc ctcatggtta tagattggag gatagggaata 240

gcgacaaaagc gaagggggag ctgatgctgg ctgtttggat gggtagacag gctgatgatg 300  
 cttttcccca agcttggcac ttgatgctg cgatgggttag tgggagtgat gctcttgoga 360  
 acattagatc gaaagtttat ctgtctccca cgttttggta tttagagggg aatgt 415

<210> 14371

<211> 11

<212> 11

<213> Glycine max

<223> unsure at all n locations

<400> 14371

agcttcataa gggttatatat ggcttcatat aagctcccaa ggcttgggtt gataaactaa 60  
 atgagaactct actaatgttt gaattcaaat ccaacaagtt tgatccctca ctatttggtt 120  
 attttaaggc ttcctccata atctacattc cggatatgt tgatgacatc ataaaaacat 180  
 gaaatgatat tcttttatta catcaactca tttctaaget aaatatagta tttctctca 240  
 aagatcttgg atcttcagat tatttcttgg gaatgaaagt aaagcatctt ttgatgggtt 300  
 ccattgcttt aacttacacc aaatatatta gagacttaat gggcaaaaac aacatgttag 360  
 atgtcaaaac tatatcttcc ncaatggtaa ctggctataa gctcaactag aagtgggtct 420  
 atccctttgt tttatcccta tatgtat 447

<210> 14372

<211> 377

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14372

agctntgtta gctctagagg tattaattta taaattccat taacatttat gttaactaac 60  
 aataagaata attatcttgg atccattcaa ctaaccatgt gcaacaaagt aaataactac 120  
 attacggcat aatacaaaga aattattatg aatttattta ttaacaaatg ttcacaatat 180  
 ctctcaaaac tatgcaacta tactacttgt taaataaaaa ttatatcagt cctctatttg 240  
 atttacatat actatagaga caagaatcat ggtcaacaat tttttccag cattataaac 300  
 aatcaaaagt atgttcaatc aataattaaa tcatagtcac caacacatga caagctttgc 360  
 acaatagaaa acactac 377

<210> 14373  
 <211> 404  
 <212> DNA  
 <213> Glycine max

aaatcttga tcttttgga gtaatttga caataaaat aggtatata caataaaat 120  
 agtcacaag aaaaatttgg taaagactac atatgaaaaa ttagcttggc cttaaacatc 180  
 aattggtaat ttaataaagt gaactgctgg gtaatttctt gaataaataa attcagatct 240  
 taaaaatgat aatttcataa acttttacta tacaacatat agacttaaga caaacattga 300  
 gataaaaact atagaagcat ggcaaatgtt catctgcaac caacaggaat gtaggtcaca 360  
 cattgaaaca gatatgttta tctcaatctc atactccatt cttc 404

<210> 14374  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14374

agctngcatc onncattttc cttattcctt caagctataa caataaaaagt attatcaata 60  
 ccatacaatt aaaccaataa ttaattaaaa tggtcacatt aattatatgt catgccatgt 120  
 tgtcaacaat actgectgat aattaaaatc aaaataaata caaaactcat gggtttttaac 180  
 tattagtatg attatgacgg ttagaaataa tctaagttct acatcgatta aaaataattt 240  
 caaattagaa tatataagtg agggaaaacc tcaactcctg aactaacttt tgaaattgag 300  
 ttagactttt cacattattt attctaagaa tatattagag tatattatca tatcttctaa 360  
 ccattgactat t 371

<210> 14375  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<400> 14375

agcttcagta aataggcatt actcatatac tctttcagga caatategcg attcaggtgc 60  
 agcatacast ggtaaattta caagttcagg aatctttggg tctctcaaac gaagatgagg 120  
 aggttgatca ttttcattgat ttgtgttggc cctggcgatgg aactaaatat aaatgootat 180  
 ctatataaga aatgaacttc aaactatata tcttcacaaa atattcagta atttctgtca 240  
 tttttatca aaactatata cagagugggt gacacaaatt attactaat aaatcagtga 300  
 ctatataaga aatgaacttc aaactatata tcttcacaaa atattcagta atttctgtca 360  
 ctatataaga aatgaacttc aaactatata tcttcacaaa atattcagta atttctgtca 420  
 ctatataaga aatgaacttc aaactatata tcttcacaaa atattcagta atttctgtca 480

<110> 14376  
 <111> 441  
 <112> DNA  
 <113> Glycine max  
 <223> unsure at all n locations  
 <400> 14376

acttatatt aactctctct ctagatgta ttgttaacgc aaacactcaa aatggaatg 60  
 ctcttttgcg cccaacattt aactctctct attacatgcc gtagataaat ataacaaaat 120  
 tcaatcttag tcttaactca ttatcacatg acataataaa atattggagc atatattcga 180  
 ctacetaaca agttgootat tttatatgat agtattgttt ttctaccaat agaaaagatc 240  
 taagtattat gtaagtaat ttcaaattat gtcttattta taattaaaaa aatttatttc 300  
 ttgtctctat caaaataatt gaacttaaat ctttaattgaa acataagtaa gtgataataa 360  
 acagataaaa actgtgtgtc ttgaaaagt ctctaanatt aaatcattaa agtaacatgt 420  
 gttatcagttg gctttatacc g 441

<110> 14377  
 <111> 426  
 <112> DNA  
 <113> Glycine max  
 <223> unsure at all n locations  
 <400> 14377

agctngtaac tgaagccctc tttctattgt ttgagctcca ccccgccagc ggatactagc 60  
 ttgtgagttc gcttctctca atcgacttt ttgtggagcgg gcatataagt atcgccctgt 120  
 taatgtgggt gaatttgaac ttcccgccga gcagtggtgt gtttaacttg atctgaagcg 180

ggaggagtgc accaatttgt tcccatctgg ccgagtatat tccacaggeat tccattttacg 240  
 tggacaaggg ttttttctat cagcacattg caacatggac caacagagct ctttccattg 300  
 ctttggcctg ttcttaggaa tgcaggaaaa gggctcagtt agctatgcgc ctgactatga 360  
 gtttctctctt aggtcaagc caacagagaa atttcttctc aagtcacaaa ccaatttctt 420  
 attcac 480

<210> 14378  
 <211> 246  
 <212> DNA  
 <213> Glycine max

<225> unsure at all n locations  
 <400> 14378

agctntcact cgcctgtcgc attcaggcgt tttctgttgc agacgctaga natctaacaa 60  
 augaagctct cgagaaatct aaatggctat aactttctac tgcctgttgc gattcaagcg 120  
 cataacatat cgagacgctc gaaattgaac aacgggattt ttcgagaaat tcagatggtc 180  
 gtaacttttc actcgcctgt gctattcagc acattgagta ttgagaccct tgaaattgga 240  
 ccaagg 246

<210> 14379  
 <211> 444  
 <212> DNA  
 <213> Glycine max

<400> 14379

atcctctgag tcacctgcgc catgcaagct tcaagaatta tggcctcctc aaactacttg 60  
 tttcctgagg gaaattctat aaatagacct cccatcttta atggagtggg ttatcactac 120  
 tggaaacccc gcatgcaaat ctttataaag gcaatagatt taaatattta ggaagccata 180  
 gaacaaggac cttatgttcc ccatataata gccggaagtg caacaataga aaaacctata 240  
 gcagattgga ctgaggaaga aagaagatta gtacaatata atttaaaggc caaaaatatt 300  
 attacatctg ccttaggaat agatgaatac tttagggttt caaattgtta aagtgcctag 360  
 gatatgtggg atacactaca agtaacacat gaaggcacia cagatgttaa aagatctacg 420  
 ataaacactc taactcgtga atat 444

```
<125>      unsure at all n locations
<100>      14387
```

aaaggaatat	agtagagaa	gaagaggaa	tgtagatata	ttatagaa	aaatcatag	60
aaatcatat	gaatcaga	caaaaaata	gaactcttg	gagacttaca	catccaaat	120
ctcaaatata	aaataatgaa	taaatttcac	atattaaaa	cttatttaat	aagatgatct	240
taaaaaata	tttcatttaa	taagatcaat	tgttttatat	ttaatatcaa	gtttaaataa	360
aaatcaatta	aaacattata	aataactcaa	tttaataaaa	ttaactaatt	totttaataa	480
aaataaata	tggtgtttta	taatcgagat	gtagctaata	totttaaaaa	catatgagac	600
taatttgagt	tttcataat	gtttggataa	gaattaatta	atatgagaat		720

<210>	14381
<211>	394
<212>	DNA
<213>	Glycine max

<400> 14381

actcaagctt cttagtttca gatgatgcag ctgcattcgt atcttctta tgcactctc	60
taatgactat agcatcattt ctggcgctaa actgctgtga gttggaagcc atctttctcaa	120
ttaaattttct ggccttcagca ggagtcatgt ctgcaagggc tccaccactg gtagcatcta	180
tcatactttct ctccatatta ctgagacctt tctaaaagta ttggagaaga agctgcttcta	240
aaatctgatg gtgaggggaa ctggcacata tgttttttaa tctctttcag tactcataca	300
ggctctctcc actgagttgt ctaatacctg agatatactt cttagatggt gtggctctag	360
aagcaggggaa atatttttcta agaatactct ctta	394

α.100	14382
α.110	471
α.120	DNA
α.130	Glycine max

```

0223. insure at all n locations
0400. 14382

```

gggcacaaga taaaaaggta tgggtatata cctctctata gttnngaactc ctttagatgga 60  
 tggccatcca ccaagactga gaatgtaatt gtagagacac acctcanaat caaatccacc 120  
 taatgagttg ggatacccaa ttgttctaga actctcctca agatgatcca ttctaccctg 180  
 tggccttctg tggccttctg tggccttctg tggccttctg tggccttctg tggccttctg  
 tggccttctg tggccttctg tggccttctg tggccttctg tggccttctg tggccttctg  
 ggcaaaaaag ttttctatgt ttctcgcaca atatgtggaa ggatgatctt caatttattt 240  
 ggcctagttt tagtcaccaa ttagaagacc acattacata gastaattga catcaactca 300  
 ctatgatgtg tgagaatttt cacttttga atcaagggaa tccaagtctt a 360

<210> 14333  
 <211> 477  
 <212> DNA  
 <213> Glycine max

<22> unsure at all n locations  
 <400> 14333

agcttatect gatgccaaaga accagccaca tgttcttgtt agtccaagct atttccattn 60  
 ttttgccttga aatagtctga tctatgtttc cttttgtctg gatctactcg atctgagga 120  
 tttttttctt gatcaatagg tggcacaaag attgaagcaa caaggctact cttctggttg 180  
 ctctgttggg gatacaatcc cttatantaa ttgctatgag caggtttgtc atttagtcac 240  
 tctcccaatc aaaggccaaa tagtgcaact ntgggaaatt ntttgcctcg agtatttggg 300  
 gtatatgnt gctcgaattg tatttttaat attatgttct gctntgatta gggtggtagt 360  
 ccaggccagt cagctggcat tgcacaact gccagacac ctgatgaact taaacgagat 420  
 caagggaact ggtgatnga cattgattac tatntatcac aacaggtctt tatattt 477

<210> 14334  
 <211> 245  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14334

tttccagagc ttccgttgc caatttcgag tatctctata tttgatgcac ctgcctcgga 60  
 cctcttagtg aanaattatg accatttga ttctctcgaga gctttctgtg ttcaatttgc 120



agcatctcta tatgtgatgc acctgcatca gaactccgag tgaaaagtta tgagcaattg 180  
aatctctcaa gatcttccaa tgttcaattt caagcatctc gatataattat ggcctgaat 240  
eggac 245

<213> Glycine max

<223> unsure at all n locations  
<400> 14385

agcttgatat agtctgggtc tgtaacttcc cgtctctacg tacagtcttc aagcaacctc 60  
cttgagattg tccactctct gtgtaaaact ccttttccaa agtctgaacc acacacggac 120  
gaaccttggc ttgcttccga gaactctcta caacaagaga ctctcagtct cttaattgct 180  
tttgagaagt aagaagatga gaagaagacc tctctcttat nagggataga ttgtcaatga 240  
agaccaatca naattcctta ttgaatgtgc aagtgggtga ccaaggaatc ttattgagag 300  
cataagaca 309

<210> 14386  
<211> 322  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14386

tatgttgcac atatntacaa tagacctctt caacctcagc atcaaaaatca accgcagcag 60  
aacaattatg acctctccag caacaaatcc aaccttggat ggaggaatca ccttaacctc 120  
agatgggtcca gacctcagca acaaccacag cagcctgtct ctctcttcca aaatgtgtgt 180  
agccccagca gaccatacat tctctcccca atcgaacaac agcaacaacc ccagaaacag 240  
ccaaagattg aggcctctcc acaaccttcc ctggaagaac ttgtgaggaa aatgactatg 300  
cagacatgc agtttcagca ag 322

<210> 14387  
<211> 362  
<212> DNA  
<213> Glycine max



catcctgccc gaaaatactg gagttgctaa aagcattgaa gttgcaggat ccacgatg 298

<210> 14390  
 <211> 244  
 <212> DNA  
 <213> Glycine max

atggaatggc agatattgaa atcactccat gaaggaaact ccattgigaa tatgactaga 60  
 ttgcaactgt tggccacaaa attcgaaaat ctgaagatga acgaggaaga atgcattcat 120  
 gacttccaca tgaacattct tgaatttgc aatgcttga ctgctttgtg agagaagatg 180  
 acagatgaaa agctggtgag aaagatcctc agatccttgc ctaagagatt tacatgaaag 240  
 taat 244

<210> 14391  
 <211> 484  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14391

catgcaaget tcactctcgt ctactaactc ggcagccata acttcaactc ttgtttcttc 60  
 ttgtgtaaaa tgaattatgg tgggaggttn tctaccgtaa actacctcan aaggtgtagt 120  
 tccaatagat acatggtagg aagtattata ccataattca gcccaagaca cccaatacga 180  
 ccagtttttg ggtgctcgc atgcaaaaaca acgcanataa gcttcaagac atctattcac 240  
 caacttcggtt tgaccatcca ttccgggtg aaaagaggaa ctcatcttca aagttgttcc 300  
 ttgtagccga aatagctcct tccaaaacat actanaatag aggatctagg tcaactaaca 360  
 tggattgtgg cactccatgt aaccagacaa tctctntggt aaacacctcg gctattttct 420  
 ttgctgtata aggggtgctng aggggtatga agtgtccata ctttgataat ctgtccacaa 480  
 caac 484

<210> 14392  
 <211> 279  
 <212> DNA  
 <213> Glycine max

<400> 14392  
 atctctctctt tcactacatc aataatcacc ttgtttatgt cttctctggg ctgtcttact 60  
 gtttagctc catcttctaa atatattoga tgcatacatg tggatgggct aataccacga 120  
 ctgtcttcca ggtctcagcc tatagcttcc ttatcttctc tgagaactga caagaacttc 180  
 ctgtcttcca ggtctcagcc tatagcttcc ttatcttctc tgagaactga caagaacttc 240  
 ctgtcttcca ggtctcagcc tatagcttcc ttatcttctc tgagaactga caagaacttc 300  
 ctgtcttcca ggtctcagcc tatagcttcc ttatcttctc tgagaactga caagaacttc 360

<210> 14393  
 <211> 348  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14393  
 agcttcagaa agaaaatttg gcactacaga ctgataaag agttgtaagg agcttgtatg 60  
 anaattctta tgaagagcac tgggaaattg aagaccagat tacacaaatg cagaanaggg 120  
 ttgtcagctt gcaagatgag ttgtgaatta atacattcat agaagataac gatgcacgag 180  
 ctctgatggc tgcaacagct ctgaagtcac gcaaagagac cctggctaag ttgcaagagg 240  
 cacaggcaca atcatctgaa gaggtctaaag aatcctacca aatggttaag gaagctcaca 300  
 gcaagtttga aacctttaga gacctattca ttntctaaca taagagtc 348

<210> 14394  
 <211> 255  
 <212> DNA  
 <213> Glycine max

<400> 14394  
 gctggagatg gccactcta tctgagagac tctgtttaca cagactgaac cagactggga 60  
 cacccttcc ctggtgtaca ataactctat acaccaagat ggctgtgaga ctctcagtc 120  
 ctgttcagaa gcttgcatac gagatgaaga ttctctctct aattgggatt gatggaacat 180  
 tgaagaccag atcaaaaagtc cttattgaat gggcaagtgc gagagcaatg tgtctttgtg 240  
 atgagataag acatt 255

<210> 14395  
 <211> 351



taaaagggat agattgtaca atgaagacca atcaaaaattc cttatttgaat gtgcaagtgg 240  
 ttgaccaagg aatcttntg agaggataag acatttcagt tcagatnaac totgggactt 300  
 togagaggat aaaac 315

-----

----- Glycine max

<23> unsure at all n locations  
 <400> 14393

atgaatcana nacttgcacc tgttgccaga cctgttgggt tatgtctctc tgcacaacac 60  
 cacacagacc ttgtcccttc tgtgcaacaa totgaagcaa tgaacagcc tgaagcttat 120  
 gtgcaacaa totacaacag acctctctca cctcagcagc aaaatcagcc acaacagaat 180  
 aattatgacc ttctcagcaa caggtacaat cccgggtgga ggaaccatcc caaccttaga 240  
 tggtcgaatc attcacagca gcagcaacaa caacaacaa cttattttta aatactgggg 300  
 gcccaacaga catatgttcc tcatctcca cagcaacaca gcacaaccta gaacagaaac 360  
 agt 363

<210> 14399  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14399

agctttgggc acaagatata ttgtatggg tatatacttc totatagttt gaactctta 60  
 gatggatgcc cttcaccaa gactgagaat gtaattgtag agacacact canaatcaaa 120  
 tccactaat gagttgggat acccaattgt totagaactc tctcaagat gatccattct 180  
 acctgcaat aggttttaga catgtataac ttgaaagcaa ttgaacattt cctccccatg 240  
 atctttttct tcatataata aaagcactca aatgccacca aagcattatt agtaatcaat 300  
 ctatcaggca caaaagcgtt ctatgtttct cgcacaatat gtggaaggat gatcttcaat 360  
 ttatttgca tagtcttagt caccaatrag aagaccacat tacatagaat annatgacat 420  
 cactcaat 428

<210> 14400  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<225> unsure at all n locations  
 <400> 14400

gagcctgctg ggcgcctgctg ggcgcctgctg ggcgcctgctg ggcgcctgctg 120  
 ggcgcctgctg ggcgcctgctg ggcgcctgctg ggcgcctgctg ggcgcctgctg 160  
 ggcgcctgctg ggcgcctgctg ggcgcctgctg ggcgcctgctg ggcgcctgctg 200  
 ggcgcctgctg ggcgcctgctg ggcgcctgctg ggcgcctgctg ggcgcctgctg 240  
 ggcgcctgctg ggcgcctgctg ggcgcctgctg ggcgcctgctg ggcgcctgctg 280  
 ggcgcctgctg ggcgcctgctg ggcgcctgctg ggcgcctgctg ggcgcctgctg 320  
 ggcgcctgctg ggcgcctgctg ggcgcctgctg ggcgcctgctg ggcgcctgctg 360  
 ggcgcctgctg ggcgcctgctg ggcgcctgctg ggcgcctgctg ggcgcctgctg 400  
 ggcgcctgctg ggcgcctgctg ggcgcctgctg ggcgcctgctg ggcgcctgctg 440  
 ggcgcctgctg ggcgcctgctg ggcgcctgctg ggcgcctgctg ggcgcctgctg 456

<210> 14401  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<225> unsure at all n locations  
 <400> 14401

gctggggaat gtgaatgata gctcaagat tgtttgctg tcatgataat gtcgtcaaca 60  
 tatacgagaa taactgtgag atcatgagaa tggtagtgt ataagaaaag tgagtgatca 120  
 gcagaggatt gatgaaagcc ttgagaaaga aagaatgacg agagtcgtgt gaacccattg 180  
 cgaatgcctt ggggttaggc atataacgaa cactgaagac ggcagactag attgggatng 240  
 tccacaatta aacctggagg aagcttcata tatacctctt cgtggaagtc cccatgaaga 300  
 aaggcgttat tgacatcgag ttgtcgaaga tgcacgttac ggagagcagc gagagcaagg 360  
 agtaacct 368

<210> 14402  
 <211> 481  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14402

```

atgcaaccc ttaaacaccc cattcccta tctcatactg cagatctctt cttttcttgt 60
ctgcatactn natecatctga tggtagagcc gtaacaaatg actttttaagc tgattcaaaag 120
tcttctctt tcttctctt tcttctctt tcttctctt tcttctctt tcttctctt 180
tcttctctt tcttctctt tcttctctt tcttctctt tcttctctt tcttctctt 240
tactatgaa actagtgtta taccatatt cggccacgg gatccagtat gaccaggtct 300
tgtgtgtctc agatgcaaa cactcaagt aacctctaa gcctctattc agtacctcag 360
tgtgccatc agttcttggg tgggagggag aactcatctt caactcggta ccttgtaact 420
cgaacagttc catccagaaa tggcttataa a 480

```

<210> 14403  
 <211> 484  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14403

```

agctngccaa cccatggaag ctctaatat ctccacact ntatgggggtg ggccattctt 60
ggatggactt gatttctctc ggttccactt ggaccccatc tctaccaact acaaactcta 120
agaaaaactat attatctaca caaaaagtac acttctctat atttgcatag aggggtgtttt 180
tctaaggac tgaaagaact tgctgagat gtctaagtg atcatctacg ctctactgt 240
acactaaaa atcatcaaaa tagacaacta caaatccacc tatgaaatcc cttaagacat 300
gatgcataag cctcataaag gtcttgggtc attagtgagc ccaaaaggca tcaactagcca 360
tctatataaa ccaaacttgg ttttgaaagc gggtttccac tcat 404

```

<210> 14404  
 <211> 477  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14404

```

gcttggttga catccaaact tatcttgrta gttttatttg atcaaaaataa ggatgaattt 60
gtttaaactt aaaaaataa ctntaaaaata aatatTTTTT acataagtgt ttttttaaaa 120

```



catagataag attttttttca acaaataagt gtaaacaaat taatcctaatt tttgttttgg 180  
 actcaagttt aatttagtaa ctttaatttc ataagttact tgaagtagct tatgacacac 240  
 aaattagatt ataagctact agttnttttc ttcttcttca atttatttctt attattttat 300  
 agtattttt attttttttt ttattttttt ttattttttt ttattttttt ttattttttt 360  
 attttttttt ttattttttt ttattttttt ttattttttt ttattttttt ttattttttt 420  
 agttttttt ttattttttt ttattttttt ttattttttt ttattttttt ttattttttt 480

<210> 14405  
 <211> 299  
 <212> DNA  
 <213> Glycine max

<400> 14405  
 atagetggca tatagtaaag aaagatctta ttgctgcagc gaatgatatt ttogagagag 60  
 gatctttatt agaggattct aatactactc ttgagactct cattcttata tctattactg 120  
 ctaagactgt caaggattac aagcctattg cagtttgctc tactttttat aaagtgatct 180  
 aaaatttttt gactatgagg ctagggatag tgatacagga tattgttcat actagccaag 240  
 caacttttgt tcccggtcaa gtcattcaca atcatattct tcttgcaact gagtagatg 299

<210> 14406  
 <211> 311  
 <212> DNA  
 <213> Glycine max

<400> 14406  
 agctgctgag atgcttttgt tcttacaatc attgggatct agagcaatct tttctattac 60  
 caattctcta tgtaccatct gtaacaatta cggacgtata atgctgccac ttaacatgct 120  
 atcttatgat ggaccacatt acgtaaatgc taagcagtac catggaatca ttatacgtcg 180  
 gcagtcctat gccaaagctg tacttgatca caaattgaat aaacgctgca aggcattgatt 240  
 cctcttatag cagtatctaa tatgtattct catcttttaa ctaacaaaac aaatgtggcc 300  
 ccagctcctc t 311

<210> 14407  
 <211> 475

```

0023>      unsure at all n locations
0400.      14407

```

[illegible]

<E10>	14403
<E11>	410
<E12>	DNA
<E13>	Glycine max

<400> 144.03

gtccttgga	ataagcatat	ttgtctcgac	tgtataccct	gtatgatcag	cacggcttcg	60
taataacttgt	tggagaagg	cctgggtatgt	cgtgtcctgc	aaacaagttt	gctggaactg	120
ctccatgaag	agtgtgtggg	gcacaaataa	aagtagaaga	gaggaagtcg	gaaccctata	180
caaggcgtct	acgaactacat	tatgggcacc	gggtttatat	tgtatagtgt	agtcgtaacc	240
gagaagctta	tccatgcagt	gctgtctgct	aggaagttga	ataacctgag	acatcaactc	300
cttttaagctc	cgggtggtctg	tcataatgac	aaaggagttc	cagagcagat	agtggcgcca	360
tttaactacc	gcagtggtga	tagcatgtaa	ttgcgggaca	tatgtggatg		410

2101	14409
2111	396
2112	DNA
2131	Glycine max

2435. unsure at all in locations  
2440. 14409

actatagaaa ctaagctatc tanaaagatt ctcatcttc ttccaatatc aataatatta 60

atcttcttag gagcttctca cagaagaacc ctccattgg ccgcaaatgc accaaattag 120  
 ctaaggaaca gatagcaagg tttacatca tgaggagggtg tgttgccatg ttgggttgot 180  
 ggcacaagca tggggattca tgaaagaagt gcacagatct tgtgcttagt tttattgggt 240  
 gtcctctctc taagtctgat ctatctctct agacct 270

<210> 14410  
 <211> 258  
 <212> DNA  
 <213> Glycine max

<400> 14410  
 catgcaagct tctattttca attacgagcg tctcgatata ttttgagact atgtcagaca 60  
 tccgagtcac aagttattgt cgggttgactt ttcttagagc ttgogtttct aatttcagagc 120  
 atctcgatat attacagggc tcaataggac atccgagtta aaagttattg tegtgggatt 180  
 tttctcagag cctcctgttt caattacgag cgtctcgata tctatggga cacaatcgga 240  
 catccgatto aaaagtta 258

<210> 14411  
 <211> 356  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14411

agcttccatc actacgggt cttgaaccga gccagtccta aagacaattt tcccctgcca 60  
 cgcattgata tattggtaga taatacaacc aagttcgccc tttctctatt tatggatggt 120  
 ttctcggggg ataatcaaat aaagatggca ccggaacatg tagagaagac cactttcgtc 180  
 aacctatggg ggaagttctg ctataaagtg atggccttcg ggcgaaaaa tgcctggggca 240  
 aacctatgag gtgtcatggt ggcttcttct catgatatga tgcataagga aatagaggtc 300  
 taagttagat acatgattgc caaggetoga actgaggatg aacaccttgt caatct 356

<210> 14412

1440 &gt; 14412

```
<E10>      14413
<E11>      234
<E12>      DNA
<E13>      Glycine max
```

tatatcgata	cyctcganat	aattatcgga	gactctcgga	atattcaaat	agtcataact	60
attcacacgg	atgtccgatt	caggettata	atatatcgac	acgctcgata	ttgaacatcg	120
gaaactctcg	cgaaattcaa	atggtcataa	cttttcacac	ggatatccga	ctcaggcaca	180
taaatatgtcg	agacgctcga	cattgaacaa	cggaagctct	ctagaaattc	aaatggtcac	240
aacttttcac	acggatgtcc	gattcagggc	aattacatat	cgag		284

42108	14414
42115	246
42116	DNA
42119	Glycine max

agcctatagc agttaaagtag ttgatctccc actaatatat cttactntnt tccctcaaca 60

agactttttg tataactgatg tagctccatg tggagcttgt agcctctgaa tctctctcat 120

caatgaagtc ttttgcttct tgaagatcaa tgacgatgga atggagaacg aataaagatg 180  
attggagaca ccacttccag gagaatatga gtcaagaaca ngctcaccac catatgaagt 240  
catgga 246

<210> 14415  
<211> 332  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14415  
ctctgnagtt ggggctctac agaatgctac tatcacacat ncagaaatta gttctcttgt 60  
caacaaagtt tgccaattta tgagtcagcc aacagaacag cattgggtgg ctgtcaaaag 120  
aatcttcatt tatctaaagg gcacacttct atttgggttg aaattggaac ccaatttttc 180  
tacaagacac tactttgttc atgccttttg tgatgttgaa tgggtttcag atctgatga 240  
tcgaaggtct acctcaagtg ttgctgtgtt ctttaagccca aatcttgtct 290

<210> 14416  
<211> 332  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14416  
tccttcattg aagaaatcag tagaacagca ccaattaaat atcttcacaa gtatcttgc 60  
tccaagggaa ttgtatcaga gacttgccaa gaattcaaaa gaatgattac cagtctgtgg 120  
tttgaccttt atggcctgtg tggcacttct ggctctctct ctgcttttga acatgttttt 180  
gttggagaaa ccaaacaatg gtgggtgaagt tctggctttc ataacatgct gcagctatga 240  
cctcgtatct tctttctctg ctgtttctaa ttatccattc acaattcatg ccaaatttaa 300  
gdtgtattaa ctgtttatat tcgaagtctg at 352

<210> 14417  
<211> 250  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14417

tccacttgga ccccatttct ascaactaca aaacctaaga aaactatatt atctacacca 60  
 aaggtaacat tctctatatt tgcataagagg gtatttttcc taaggactga aagaattgtc 120  
 tgagatgtcc taagtgatca tctangctcc tactatacac taaaatatca tcaaaataaa 180  
 tctctctctc tctctctctc tctctctctc tctctctctc tctctctctc tctctctctc 240  
 tctctctctc tctctctctc tctctctctc tctctctctc tctctctctc tctctctctc 300

<210> 14418  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14418

agctatgaat gcactattca atggagtga cattaacatc ttcagactga tctacactng 60  
 cccagngggt aaagatgcat gggagatcct gaaaatcact catgaaggaa cctccaaagt 120  
 gaagatttcc agattgcaac tcttggtac aaaattcgaa aatctgaaga tgaaggagga 180  
 agagtgtatt catgaactcc acatgaacat tcttgagatt gccaatgctt gcactgcctt 240  
 gggagagagg ataacagatg aaaagctggt gagaaagatc ctcagatcct tgccaaagag 300  
 atttgacatg aaagtcaactg caatagagga ggccaagac attngcaaca tgagagtga 360  
 tgaactcatt gytctctctc anacctttga gctaggactc tcggataggg ctgagaagaa 420  
 gagcaagaat ctggctttcg tgtccaatga tgaaggagaa gaagatgagt atgaacctga 480  
 tactgat 487

<210> 14419  
 <211> 360  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14419

agcttacatg aatagcttct ctatctacca tcttntaga gttataaaat atgtatgctt 60  
 tagatgttcc agagtatcca agaaatgttc catcatcact ctatgaataa aattntccaa 120  
 gttatcttta gtgttaagaa tgaagcattt acacccaaag agatggaagt atgatatgtt 180  
 ggattttcgt cctctccata attcataagg agtcttcttc attatgtgtc ctatgtaaat 240

tttggtttga aataataggt tgtattcatt gcttcaaccc ataaatgggt aggagtagca 300  
 ttgtcattaa gcatggttct tgcatttct tgtaacgtca tgttcttct ctcaactaaa 360

<210> 14420

<400> 14430

agcttcaatt ctgattctct agcgtctcaa tatactatgy acacaatcgg acatccaggt 60  
 aaaaagttat tgtcattaga ttttctcag agctcttatt ctgaatctcg aacgtctcga 120  
 tatacaacgg gtcacaatcg gacagctgag taaaatgcta ttgtcgattg attttgccta 180  
 aagcttcaat ttgaatttc gagcgtctcg atatcttatg ggacacaatc ggacatccga 240  
 gtaaaaaggt attgttgttc gaatctgctt agagctctcg tctcaattt cgagcgtctc 300  
 gatattttac gagagtcaat cagac 360

<210> 14421

<211> 481

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14421

agcttgtaga acggatggac atgatatatg ttatggtgtt gggcttggtc aaggataaaa 60  
 gggaatgtcc accattattt ccattgacac aatgcaataa tgatgatttg gaaattttat 120  
 gcagaactag tcatgcatgc acctatgttg acacaaatgt ccaccattat tccatgagg 180  
 tattgtgcta cctaaacata tgtatatntt tgtgaggtat ntgtctatat acatgcgtgt 240  
 ccaaggtatc ttgtaccta aacatacata tatatgtttt gtgagatatt ntgtctatat 300  
 acatgcattt ccaaggtatc ttgtacctg aacatacata tatatanntt gtgaggtatc 360  
 ttgtctaat acatgcattt ccaaggtatc ttgtaccta aacatacata tatatanntt 420  
 ctgaagtatt ttttngttac ataatgcct atctaanggt atttcactac ctaaacatac 480  
 a 481

<210> 14422

<211> 465  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14422

tttccaggac cggcctagttc ttacgttaata gcttadaaaat cccctccacat gtaggggtga 180  
 gttggagat aaatctcgcg atataattca acctgccaa aaataccga acctgcttct 240  
 cgtgctgtg ttatagcatt tcaaggatgg ccttcaactnt ctgggcatct atctctatcc 300  
 attctgact tagcataaat cctagcagct ccccgacct caccctanag gtgcatttgg 360  
 ttgggtttag ttttaattgg tatttcgcga accttccaaa cagcttacgc agattgacaa 420  
 ggtgttcgtc ctacgtccga gacttggaaa ccatgtcctc tacgt 465

<210> 14423  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14423

ctacttcaca tggacttgat ggggcctatg caagttgaaa gccttggagg aaagaggtat 60  
 gccatgtttg ttgtggatga tttctccaga ttacctgcg tcaactntat cagagagaaa 120  
 tcagacacct tcgaagtatt caaggagttg agtctaagac ttcaaagaga aaaagactgt 180  
 ctcatcaaga gaatcaggag tgaccatggc agagagtttg aaaacagcaa gtttactgaa 240  
 ttctgcacat ctgaaggcat cactcatgag ttctctgcag ccattacacc acaacaaaat 300  
 ggcatagttg aaaggaaaaa caggactttg cagagggctg tanggtcatg ctccatgcca 360  
 nagaactnn cctatatctc ntggctgaag ccatgaacac agcatgetac atccacaaca 420  
 gagtcacact tag 433

<210> 14424  
 <211> 356  
 <212> DNA  
 <213> Glycine max



<223> unsure at all n locations  
<400> 14424

cgtaatatat cgagagcgtc gaaattgaat gttgaagctc gtagccaatt caaaagacaa 60  
tatctttttt ctgggatgtc tgattgaagc ccgtaatata cgagagcgtc cgacattgaa 120  
ataatctctt ctgagagcgtc gaaattgaat gttgaagctc gtagccaatt caaaagacaa 180  
ataatctctt ctgagagcgtc gaaattgaat gttgaagctc gtagccaatt caaaagacaa 240  
ataatctctt ctgagagcgtc gaaattgaat gttgaagctc gtagccaatt caaaagacaa 300  
aatgttgaag ctgagagcgtc gaaattgaat gttgaagctc gtagccaatt caaaagacaa 360

<210> 14425  
<211> 365  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14425

tatcaacatc aaacttggag aaagagttct tgggtgcaag acatgagaag caatcaagta 60  
taatgttaact tcttcaacta aagcggggat ccctctccac acatatttta tcaatagcaa 120  
cataaaaaat ctctgcaagg gaatgatgaa gattagtgat agtctctcct tctgctcttg 180  
aacgaccccg aactggtatt tcttcatcca tatttggtac cagaataact tttagcaaac 240  
aaaatccttg gacatgggca aaaaaattat tccagccact ctctctcatt gtgcccacac 300  
gagctntgac aacatcaact aattccatga cattcacaat attaagatct tttctttgca 360  
atata 365

<210> 14426  
<211> 283  
<212> DNA  
<213> Glycine max

<400> 14426

agatgagaaa caataaagtg tgggtgttct gacctctatc atttaactac aaggatcatt 60  
tggataaggg tgaataagag aaaaagcttc aattgaactg ttccacctca agtcttggat 120  
tgattgtcaa aagctcagga ctataatata tgcattgctt ggaagcatat gtaatttaac 180  
acaagaacag ttgatataac ttggttttag ctgtgaagca taataaaaaa accttcatt 240

tggtttatca gggaagaaaa tcagttagaa gccttgaga aat

283

<210> 14427  
<211> 434  
<212> DNA  
<213> Glycine max

atagctgaa aattttata atagaacccc tcagtaactc attccaaaca cagtaaaala  
attatgatat tcagagcaac agatgcaatc caggttggag gaatcatcca aatctgagat 120  
ggaatagtcg ccccaacaaa caacagccctg tcccttcctt ccagaatgct gctggtctaa 180  
gcaagccata ccttcctcct ccattgcaat aacaacaaaa gcaacaaaaa agacaataag 240  
caactaaggg tccttcctcaa ccttccttag aatagttagt gaggcagatg accatccaaa 300  
acatgcaatt tcagcaagag acaagagcct ccattcagag ttgaggaaat cagatggggc 360  
agatggctac tcagtgaac caagctcagt cacaaaatc tgacaaattg ccttcacaaa 420  
cagtgcagaa tctg 434

<210> 14428  
<211> 166  
<212> DNA  
<213> Glycine max

<400> 14428  
ccttagattt gaatcatagt gatgtatggg gtccagcccc aatcttgtct ccattcaatt 60  
tcaagtacta cgttcacttt attgatgatt tcattcagatt caattggatt tttcccttga 120  
aacaaaaatc agaaacaata acggctttta ttcaattcaa aaacat 166

<210> 14429  
<211> 439  
<212> DNA  
<213> Glycine max

<220> unsure at all n locations  
<400> 14429

caatacagagc gtctcagatg actacggagc tctttctaac atccgagtaa aaatttatg 60  
tcgttgaat tgcctcagag cttctgtttt caatttcagag cttctcgata ttttaaggga 120

ctcaattggg tattggagtt aaaagttatt ggttggttga tttgctacga gcttctattt 180  
 tcaatttoga gogtctcgat atacttttagg actcaatcgg acatcgagta aaaagttatt 240  
 atgggttgaa ttctcaacga gcttccgtgt tgaattacga gggctctcgat atactcatggg 300  
 aatcaatcgg aatctcgat taaaatttat tadtgtttga atctctacga aatctcgtt 360

<210> 14430  
 <211> 323  
 <212> DNA  
 <213> Glycine max

<22> unsure at all n locations  
 <400> 14430

tcttgaagct gggaatgatat atgcatcttc tgaaagtcca tgggttctcc ttgtgcaagt 60  
 aaaccccaaa aaagggttgaa taacagtgat aaaaaaatg acaacaatta gttgatctct 120  
 acaaggatca tggccagcgg gagaatgtgt attgattacc tcttctttaa caatgcaaca 180  
 aggaaatagc acttctctct tctcttcctg gatcaaatgc ttgagaggtt agccagtcaa 240  
 gcttctatt gctatctata tggatactcg ggttataatc aaattcttgt taagttaggg 300  
 gatctagaga aanaacactt cac 323

<210> 14431  
 <211> 487  
 <212> DNA  
 <213> Glycine max

<22> unsure at all n locations  
 <400> 14431

ngccatttag taatgaaatc gaatgaatat agtaacttac ttattcccaa gaactgcctg 60  
 taaattgatg atgagttgct ctctctcttc agagaatttt cctcttttga tctcaggtct 120  
 caaatagtta gtccatctta gcttgcaact ctctccacac ctgttcaacc ctgcctgttt 180  
 tgggaagtgt ctccaactcc catgcccatg ttcttgaata taatccacca atattctatc 240  
 ctctcttggg gtccaaggcc ctctctttaa accattttca tcaatgcctg gagttctccc 300  
 catcatcaat caatgcataa acatgttaga aattaaatac tctagatata ataagaatta 360

gttngattca nggtgcagca tgacaacaaa agagggcaaa agaaatcata ccttnggatt 420  
 gagtgtatga agtggagaat gaagatatat atatagactt agaagaatac tctgtggaag 430  
 ttgatat 437

<400> 14432

tatatogaga cgtctgaaat tgaatggtga agctctgagc caattcaaac gacctaaact 440  
 ttttactcgg atggctgatt gaactctctc acacatcgag aggtctgaaa ttgaatggtg 450  
 aagctttgag cccattcaaa cgacaataac tttttactcg gacgtctgat tgagtcctgt 460  
 tatatctcgg gacactcgaa attgaatggt gatgctgtga gccaattcaa accacaataa 240  
 ctttttaactc ggatgtcttg atgagtccta tcatatatcg agacgctcgg aaatgaatgt 300  
 tgaatctctg agccaatcca aacgacaata accttttact cggatgtctg attgagtcctc 360  
 gcataatc 369

<210> 14433  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14433

attcttgata gagtgaatta cctcatgtga tgataatatt ttatccctac tatatatgta 40  
 ggggacaaaa atgcgttgag tanggtgat taatttcacc ataaccaatc ttaaccttga 120  
 agccaacacc ttagtaaaag cttttagga cacattgcac agattgatca gtttcaattg 180  
 agacaaaaca ctaacttcac caaccttagg aatgagagtg atcagaagtt tattaagaga 240  
 attaatgtca gcagggtgac taaacaaaac ttttataaga ctgcacagaa tagaaccac 300  
 caacttcac tgagtcgggt agaacaaaac cttgaaacca tcctctcttg gagctnfgaa 360  
 aaetctctga ttgagataac attcttcacc tccccatcag tgattccact 410

<210> 14434  
 <211> 302

<210> DNA  
 <211> Glycine max

<400> 14434

aaagtgcattg taaattgatg atgagttgct cttcttctctc agagaatttt cctcttttga 60  
 tctctctctctc tctctctctctc tctctctctctc tctctctctctc tctctctctctc 120  
 tctctctctctc tctctctctctc tctctctctctc tctctctctctc tctctctctctc 180  
 caattctatc cttctctctgg gttcaagggc cttctctctc accattttca tcaattgcatt 240  
 gaggctcttc cactcactact cactgcataa acatgtttga aattaaatac tctagttata 300  
 302

<210> 14435  
 <211> 263  
 <212> DNA  
 <213> Glycine max

<400> 14435

cctcatcaaa agtaacotta attccatgcc taataagcac ctgctgcgaa aaattctggt 60  
 aatataagca gcttcaagc ttcacgaatg agcagagtta atgtcatcct tgcactcaag 120  
 caattggctcc tgcgaggtct cgtgaacaga gagcaaatca agctgcgacc catcgcgctt 180  
 atcgaagaag agcttattcc ccacacgctg aacgacaatg tcccacgaat aaacagacct 240  
 gtgagcacac atgagagtgg aga 263

<210> 14436  
 <211> 319  
 <212> DNA  
 <213> Glycine max

<400> 14436

taatatattga agagtatccc tgtggaacct tcacccgacg aagacactga caaaaactta 60  
 tcttctctctc tttggacaaa atatggcaag ctggggggcaa gtaaatcttc ttcctatcag 120  
 acattggatg caactgtgat cgtatgccca tatcaactag atcttgacgg gtattcaagg 180  
 cactcttctg cttgctctga atgttaagga gcttcccaat cacaactgtc taaacatttt 240  
 tctcgacatg cataacatca atacaatgtc taactgtcaag atcagaccaa taaggaaagt 300  
 caaagaaaat ggactctct 319

<210> 14437  
 <211> 179  
 <212> DNA  
 <213> Glycine max

<214> 14437

gagatgctt gattttctcc agaatctccg atgcttaatt tggagcctat ccaatcctta 120  
 taactctgaa tgggacctca gtgtgaaaag gtatgacctt ttgaatttga cgagagctt 179

<210> 14438  
 <211> 366  
 <212> DNA  
 <213> Glycine max

<214> unsure at all n locations  
 <215> 14438

cttacagcag ctttttctcc ctcttccatt cctacctaga gaaattccaa acaaaaagat 60  
 ggaagaagcg gaaaaggaga tcttgagac ettcangaaa gtagagggtga acatacctct 120  
 gctagatgcc atcaagcaaa ttccatgata tgcctagttt ctaaaggagt tgtgcaccca 180  
 caaaaggaag ctcataggaa atgaaaggat tagcatgggc aaaaatgtgt cagcattgat 240  
 aggtaaatat attctcaca ttcttgagaa atttaaggac ccaggtactt tctgtatacc 300  
 ttgcattatt gggaacaata aatttgagaa tgcctagcta gatctaggag catcagttag 360  
 tggcat 366

<210> 14439  
 <211> 271  
 <212> DNA  
 <213> Glycine max

<214> unsure at all n locations  
 <215> 14439

gtagatattt attttagctt ggctcacctt attattttga ccaacaagaa acactcagct 60  
 tattaaaatt gtgcatacta atatttgigg accttttgat ggtagttctt ccagaaagga 120  
 aggatacttt atcactatta ttgatggtta ttccacttac ggttatgttt acctactgcc 180  
 tgagaattct cagacaatgg atgctcttag aaattactag aatgaagtta aaaggcaatt 240

agacagaaat gtggaaatta ttagatatga t

271

<210> 14440

<211> 359

<212> DNA

<213> Glycine max

<223> unsure at all n locations  
<400> 14440

acatggatca atgtaaatat agagatatat cggtggaagg aaatatgaaa ctggatadag 10

ggatcatga agcttcagta gatgcacat tgttcaagaa gctagtggga tgcttgagat 120

tggctacca tagtagacca gaaatctcat atggatttgg tcttgtcagc agattcatga 140

gtaattcaaa acagtctcat ttggcagcag caaaaagaat ctgagatat ctaaaaggaa 240

cacttaatta tggcatattg tgtctctc acaaagaana atgtgagcta tactctgtag 300

cttatctga ctgagactgg tgatgggata aagtggagag aagatctact tctgggtat 359

<210> 14441

<211> 306

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14441

tactcggatg ttttattgag tccgcanna tatcgagacg ctcgaaattg aataccgaag 60

ctctgagcca attcaaacga caataacttt nttactcggg tggctggatg agtgcccgaa 120

tatatcgaga cgtctggact tgaatgcga agctctgagc aaattcaaac tacaataact 180

ttttactcag atgtctgatt ggtcccgta gtatatctag acgtctggta ttgaatgtga 240

agctttgtag caattaaacg acaataactt tttactcgga tgtctgattg agtcccgat 300

atateg 306

<210> 14442

<211> 420

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14442

tcattgggnt gagtagtttc tatcaaagaa ccgatatott tatatngatg gattttotttt 60  
 agtttagtat gatcagtcac ctgacatagg ttggcttctt cttctccttc ttcatsagag 120  
 ggggtgttgt ccaaacctga tgtaagctcc attgyagctt gtaggcctaa gatctttctc 180  
 atcaatgcat tcttttcttc ttggaagatc aatgacatcc gaattgtaaaa cgaagaagc 240  
 tcttctgtgc tctaaaaag tctgacatc tgacagttta tattcaatag atcaaatgtg 420

<210> 14443  
 <211> 315  
 <212> DNA  
 <213> Glycine max

actgaatgac gaactggaaat ttgattcttc ttgcacatgat gcccggcagt tggtttgcat 60  
 caataatgcy gatatgaactg gaactctctt tgcggggtca ttgctttttg aaagccgcac 120  
 ccttcactat ttaattgtgt gtattctgct tccacggctt tccaaccttg cccaggtttc 180  
 tgaggaagat ctaattatca tgtgggcctt tcatcacagg cgtcaacttg actgggcaca 240  
 cttagtcaga tatgcacga ataaggcatt gcgattaaat gctccactac catatccaca 300  
 gcttggttaac ctatt 315

<210> 14444  
 <211> 393  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14444

tgtntacccc atgttgaatt ttcttacaat agagctgttc atagcaccac taattgttct 60  
 cctcttgaag ttgtttatgg ttttaaccca ctaactcttc ttgatctttt gctaatgtt 120  
 tctggtttta agcataaaga aggtcaagca aaggcggcact atgtgaagaa gcttcatgag 180  
 agagtcaaaag atcaaatgga gaggaataat aaaagctatg ctaaaccaagc caacaaaggg 240  
 agaaagaagg ttgtcttcga acccggagat tgggtttggg tgacatgag aaaagaaagg 300  
 tttccgggaa aaaggaaatc aaagcttcaa ccaaggggag atggaccatt tcaagtgttt 360



gaaagaatca atgacaatgc ttacaaagtt gag

393

<210> 14445

<211> 433

<212> rna

<213> Glycine max

gtttacaaag agaattcatct tgatatgaca actttggaag ttctcttaca ggctaacttt 60

ttgaagctnt gagattaacc tcaagcttgc aagaccaagt ttcttatgac ataccgagtg 120

atgctttttt tactgagaat aatcatgaca cctcttgact agaaagatca ccaagtctaa 180

ttttataaag atttctctgt cttctagcaa agaagagtga agagtctgac ttgttttgga 240

tgatagacat atctcttgta aagatgacat tatatccact atcacataat tgaattatgc 300

tcagcagatt gtgcttcaac ccttcaacaa gtagaatgtt attaatgaga ggatagggag 360

aaatacagat cttatctaca ccaattatca gacctttcta gatttgaata ttaactcttc 420

accatcagag ttaacagt 433

<210> 14446

<211> 343

<212> DNA

<213> Glycine max

<400> 14446

tcttagtctt gattgatgaa gatgaattcg ttgctacttc atgcactcct ctaatgacaa 60

tgcctcact tctagcacta aattgctggg aatttgaagc catcttctca attaaatttc 120

ttgcttcagc aagggctcatg tctccaaagg ctccaccact ggcagaatct atcatacttc 180

tctccatgtt actgagtcct tcataaaaaat attggagaag aagctgctct gaaatctggt 240

gttgagggga actggcacat aattttttaa atctctcaca gtattcatat aggtctcttc 300

cactgagttg tctaatgctt gaaatatcct ttctgatgga cgt 343

<210> 14447

<211> 348

<212> DNA

<213> Glycine max

<400> 14447

tataatgtgat gggccaaaat tggacattcg agtaaatgta tgacctttga atttctaaga 60  
acttccgttg tccaattctg agccgctcgt tatgtgaatt gctctgaatcg gacatccgtg 120  
tcaaaagttta tcaacatttg tattctcaca gaggcttcca tgttcaattt cgaagctctc 180  
aaaagtttga ccattgaatt ctacacagtc cgttggtaat tggagcgt 240

<210> 14448

<211> 441

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14448

taagaaaaag atgggcctcag caaattccct attttcagag tggaaattcta tcaatagacc 60  
tccaatcttt aatggagagg gttaccacta ctggtaaacc cgaatgcaaa tttttatcga 120  
ggcaatagat ccaaatatct gggaagccat tgaatatagg ccttatatac ccaccacagt 180  
agaaagagtt tcaatagatg gtagttcctc aagtgaaaag ataaccatag aaaaaacctag 240  
agatagatgg tctgaagagg atagaaaacg agtacaatac aacctaaaag ccaaaaaacat 300  
aataacatct gccctaggaa tggatgaata ttccagagtt tcaaatggca agagtgtctaa 360  
ggaaatgtgg gacactcttc gattaacaca tgaaaggact acagatgtaa aagatctang 420  
ataatgcact actcatgagt a 441

<210> 14449

<211> 437

<212> DNA

<213> Glycine max

<400> 14449

tcaatcttgc ttggtcgggt acatgagcat atgcaatgct cccaaatact ctcaagtgat 60  
caactcttgg ctccaactcga ctccatgctt ctgtgtgggg tgatttttga cattctttgt 120  
tggggagcga ttggacaaat aaacggcaca tgcaacatct ttggcccaaa atttctctgg 180  
catatttcta acctccaaca taactctagt calatttaaga atagttctat tttttctctc 240

cgctacccca ttttgttgtg gagatctagg aacogttaga gggcgacgaa tttcatattt 300  
 ttccaaaaat ttattaaatt cttttgatgt gaattcgcca cctctatcag atcttatago 360  
 tgtgattaca taaccactct ccttttcaca agagttttat aatttttaaaa actacaaatg 420

<211> 277  
 <212> DNA  
 <213> Glycine max

<400> 14450

actttattgg ttttgcacta gtattgtggc atagcaaaaa gcaaaatagt attgcattat 60  
 caactgtaga agcggaatat atttctgttg gaagctgttg tgcacaaatc ctatggatga 120  
 agcaacaact ctctgattac gggtaaatgc ttgatccatc tegtattcgt tgtgacaata 180  
 cgagtgcaat caacctatcc aaaaatacta ttttgcactt gatcgaggcc gtaccogaat 240  
 caaataaaca ttaaaatgca gtaactagga agtgatc 277

<210> 14451  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14451

ctctctctcgn cnanancaac taactcatct gacatcattt tcaataatgg tgcacgggaa 60  
 tgtccatttg ttttgtact ctagctgath gcaaatgtat ttgcaccgga agtatagcat 120  
 cgtgcccata agtcagtcca aatggggtag tattagtcca ttccctanga gaatncttac 180  
 atgcccatag aacttgatct aacgttttat tccaatttct tggcttttgg gcaatgtgtt 240  
 ttttaatcaa gttgattaca atcttatttg ctgcttcgac ttgaccattt gcttgcccat 300  
 aatatgggtg cgaggtraat aatcgaaaac cagttttttg ggcaaatctt ttcatttttc 360  
 gtccagtaaa aactgaacct tgatcagt 388

<210> 14452  
 <211> 400  
 <212> DNA

<213> Glycine max

<400> 14452

agggtggggag atgatgggtac agcggggtgaa ccagaagcgg aagttttcttt tggtgaggta 60  
acataaataaaa aatagataggt ttggaat gat ttggtaaatc tcataaaaact atttgggaat 120  
ttggaatgatg ttggaatgatg ttggaatgatg ttggaatgatg ttggaatgatg ttggaatgatg 180  
ttggaatgatg ttggaatgatg ttggaatgatg ttggaatgatg ttggaatgatg ttggaatgatg 240  
ttggaatgatg ttggaatgatg ttggaatgatg ttggaatgatg ttggaatgatg ttggaatgatg 300  
ttggaatgatg ttggaatgatg ttggaatgatg ttggaatgatg ttggaatgatg ttggaatgatg 360  
ttggaatgatg ttggaatgatg ttggaatgatg ttggaatgatg ttggaatgatg ttggaatgatg 400

<110> 14453

<111> 271

<112> DNA

<113> Glycine max

<123> unsure at all n locations

<400> 14453

aaatgaacaa caacaatcaa agtcaagaat agcanatgaa taaaattcac cacaccaatt 60  
aataaaaaaat aaaaacacag taactgcttc aagtgtgcat tntgcatacc acatagattg 120  
gttatggcat ttgagatagc caagggtgta ggcaccccat ttccacaacc tgacatatct 180  
tctccaagta acaattntgc aaacctctcc ttcatcatct caatctctac aagtgagaat 240  
gaaaaatcana tctcatcata ctgatatcat c 271

<110> 14454

<111> 330

<112> DNA

<113> Glycine max

<123> unsure at all n locations

<400> 14454

ctaactaaca gaaaaatgga gagacccac atcctaatta aaaagagatt attttctaaa 60  
aatcagcacc atttgactct atgatacttc ttgcatttag gtcataaaac ctatacgttc 120  
tgcataaat agcataacca atgaacacac attcataggg tctaattgca agtttaaccc 180  
tcttaagatc tgggatactt acataggcca aacatcccca agttctcaaa taagaacaaa 240

tttgggtggct tttctttaat atctcatagg gagatgtctn tctttnttga ttgtggatto 300  
tatttagcac ataacaaaca gttaacaaaa 330

<210> 14455

<211> 334

<212> DNA

<213> Glycine max

<400> 14455

aaatggttga ttgagatgt ttggtttct accattgaac aattcatatg gagttttctt 60  
aaagataggt ttgattacag ccttattcat gatataacat gcagtattaa cggcttcagc 120  
caaaaaatat ttggaagag ggtatcatt caataaggtt ctagcaattt cttccaaaga 180  
ctattttctt cttccaaaca ctccattttg ttgaggggtt ctaggtgcag aaaaattatg 240  
ttcaatgcca tttttttcac aaaataaatc anattcttta tntccaaatt caccctcatg 300  
atcaactcta atagatataa tcttgagact tttc 334

<210> 14456

<211> 384

<212> DNA

<213> Glycine max

<400> 14456

aataatgggc gatcggaatg tccatttggt tttgtactct agctgattgc aaatgtattt 60  
cgaccggaag tatagcatcg tgcccataag tcagtcgaaa tggggtagta ttagttgatt 120  
ccttaggaga atatctacat gcccatagaa cttgatctaa cgtttttatt caattttctg 180  
gcttttgggc aatgtgtttt ttaatcaagt tgattacaat cttattggct gcttcgactt 240  
gaccatttgc ttgcgcataa tatgggtgtcg aggttaataa tcgaaagcca gttttttggg 300  
caaaattttt catttttcgt ccagtaaaaa ctgaaccttg atcagtggta atttgtttct 360  
ggaaatacca acctataaat aata 384

<210> 14457

<211> 270

<212> DNA

<213> Glycine max

<223> unsure at all n. locations

<400> 14457

tcacatagca cagtttggttaa ttctgatgct gtgaccaagt caaattaatt ttgaaaactat 60

attttgatca actgtaagca ttcagaactct ttgtctgtca aattacccat ngecttccct 120

actctattgt gtgcattat gttcagtgaa catccaaata ttttaadaca cattgactct 180

-----

-----

<410> 14458

<411> 333

<412> DNA

<413> Glycine max

<423> unsure at all n locations

<400> 14458

tctggtggga catcttgact tgcctntcaa tctgacattt tccacagatt ctgccttctt 60

ctatntcag atatatgaatg cctctaacag cactttgtc aatgattttc ttcataacct 120

ttaggtgcag atgtccaaat ctttgatgcc atattttgac ttcactttct ttggagaata 180

gacatgtgga ggagtaactg gtttcttgag gtgtccatag gtaacagttg tcccttgatc 240

tgcctccctt cactagaact tcaactttct catttgcac caagcattct gactttgtga 300

aatttaacatt gaatccctca tccacacagct gactgatgct gatcaagttt gcagtcagtc 360

ccttcaccag cagtactttg ttc 383

<410> 14459

<411> 305

<412> DNA

<413> Glycine max

<423> unsure at all n locations

<400> 14459

atctcgacaa ggggatccatc ggccaactat tnnagaaggat tgcattaatt atgcaaaatc 60

atgtgaagag tgcacaaaaac atggtaccat acaacaagtt ctaacaagtg agttacatc 120

gataaaaaaa ccttggcctt ttgaggatg gacattaaat ttgataggtc aaattcctcc 180

attttccctg aaaggacata ggtagatctt agttgttgtt gattatttta ccaagtgggt 240

agaagcaatt ccttataaaa atgttgatca aggggatata actaatttca tagaataaaa 300

tatta

305

<210> 14460  
<211> 403  
<212> DNA  
<213> Glycine max

atggaagcgaatggaatgataatgataatgagagaggaatgagcccgatacacttgaata 60  
tcttttaaga tagctccaca ctgcagtagc atgtcaataa ttattgtgag aacaacgaca 120  
tgaactcaa aattccctt ttacataat catgaacca ctcccatgt tgaagtgcac 180  
tgaagtgagc ataaacactt acaaaactca tcaatgtaaa tcaatagga tgaacccctc 240  
ctctctgcat ctgggggaaa agctccaatg cctccataag ccttttatto ctaacatato 300  
cactaatcat agaattctaa gtaactntag tctctgtagg cactgtatca cacaacctcc 360  
tagattatca acctcccccac acttagcaag ccccatgato ata 403

<210> 14461  
<211> 386  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14461

tgggacccct gtcagataca atactagaag gaattccatg caaccttact acctccttga 60  
tgtacaactc cactgagttc tccattctat acctcatatt cactggggata aaatgagcgg 120  
atntgggtgag tcatcttact atgaccacaa cagcatcatg tccacgacta gtcttgggta 180  
aaactagatc aaaatccata gatatgctct cccatttcca ttccgggaatc tccaatggct 240  
tcaattctcc cgatggctgt tgggtgctcaa ccttagcctt ttgacatgtc aaacatcttg 300  
ctacatatto aactacatct ttcttcatgc catgccacca aaaacttctc ttcaaactct 360  
ggtagatctt agtcattcct ggatgg 386

<210> 14462  
<211> 427  
<212> DNA  
<213> Glycine max

<400> 14462

tatgatgac gagatgtaga atgggtttat ctacatactg agagatttaa gctcttggtta 60

cttcgttagtg aagttttctgg aaatgcaaag ggtgaaagag ccttaacgaa acttatgagt 120

ttttatcacc aaaaagggaag caaatccagt aaacaaaggc aaagaacaga agagaataga 180

ggtttaggtt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt

tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt

aaatttcaa gtacattatc atgattcgtt tatgatgaac ctgttacagc aaaggggcat 300

ttagctaaaga gatctttgag ggggtgctaaa aataatttct ctagtgatcc tgtgtcacia 420

tataaaa 487

<310> 14463

<311> 493

<312> DNA

<313> Glycine max

<223> unsure at all n locations

<400> 14463

atccttgagt caccctgggc atgcaagctn tctccactaa gttgcctgat gcttgatatg 60

tctttttctga tggtctgggt cctagatgca gggaagaatt tctccatgaa caccctotta 120

aggctattcc agcttgaaat ggacctagga gcaaggtagt atagccaatc ttttgctact 180

ccctctagag aatgaggaaa atcctttaga aagatatgat ctctctggac attagggggc 240

ttcatgggtgg aacaaaaaat atggaactcc ttaagatgct tataaggatc ttcacctgca 300

agaaccagaa acttgnncag caaatgtatt agtccagtct tgagaacata tggaacaccc 360

tcctcaggat attgaatgca caagctttca taagtgaat caagtgcac catcttctta 420

agagtccttt caccaggttg agggtgagcc atgttctcag tatgaaaatt agtagcggaa 480

tgtttaaaaat cacaatat 498

<310> 14464

<311> 346

<312> DNA

<313> Glycine max

<223> unsure at all n locations

<400> 14464



ottggattag tgggctgaac catagctaan attcactaat cataattagt gaaattttgg 60  
 ccccaaaaatt tggctccaca aattcaattt caaactcaag tgaaatttga atagaaatto 120  
 aaatttccct ccaattnttg tgtgacaggt angctataaa tagagtccat gtgtgtgcat 180  
 ttttggdaac ttgatcath tgagaattac acctaaaagt ttagaactca ttggaacac 240  
 ttttggdaac ttgatcath tgagaattac acctaaaagt ttagaactca ttggaacac 240  
 ttttggdaac ttgatcath tgagaattac acctaaaagt ttagaactca ttggaacac 240  
 ttttggdaac ttgatcath tgagaattac acctaaaagt ttagaactca ttggaacac 240

<210> 14465  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14465

gcttatgaga gagcaagatc nnatggagga aatbaaagct tgcatacaagcccaacaaggg 60  
 agaaagaagg ttgtcttcga acccgaagat tgggtttggg tgcacatgag aaaagaaagg 120  
 tttccggaac aaaggaaatc aaagcttcaa ccaaggggag atggacatt totagtgett 180  
 gaaacaatca atgacaatgc ttacaaagtt gagctgcccg gtgagtataa tgttagttcc 240  
 acctccaatg totctgactt atctcttttt gatgcagatg gagaatccga tttagggaca 300  
 aatccttoto aagagggagg gaatgatgag gacatga 337

<210> 14466  
 <211> 464  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14466

agcttaacaa tccaagtgat ctattacggg aatattttat cccatccata tatcttacct 60  
 caccatata ttttacatca aagttgctag agagaaactt cttagtctca tgaagaagac 120  
 caagactatt aggtgcaagt aagatatgat caacatacag aattagaaaa ataacttac 180  
 tccactgac ctccagatat atataacca atcaacaata ttttctttat attcaaaagg 240  
 aacaatgata tcatthaact caaataccat tggcgagaag cttgctcaag actgtatatt 300  
 catttctnta atatgcacac catgtgttct tttcttttaa ccgagaaccc cattggttgg 360

tccatataaa cattctctctc taaatccccca ttaagaaaga cagttntcac atccattgga 420  
 tgtagctcta agtcataacg gactttctaatt gtcattggata tccct 464

<210> 14467  
 <211> 326  
 <212> DNA  
 <213> Glycine max

-----  
 <210> 14467

gttcagaggt tcaacattca atttcgagcg tctcgttata ttacaggact caatcagaca 60  
 ttccagtaaa acgttatgtt cgtttgaatt ggcttagaga ttcaatattc aatttcgagc 120  
 gtttcgatat atgatgggac tcaatcagac atccgtgtaa aaagttattg tcccttgaat 180  
 ttgttcagag ctccaacatt caatttcgag cgttcgata tatgacagga ctcaatcaga 240  
 ctttcgagta anaagttatt ggctgttgaa tntgttcaga gcttcaacat tcaatttcga 300  
 gctgttcgat atattaccgg cgtcaa 326

<210> 14468  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<400> 14468

agcttagagc caattcatat tacaataact ttttactcgg atgtctgatt gagtcccgtc 60  
 atatatcgag acgctcgaaa ttgaatgttg aagctctgag ccaattcaaa cgacaataat 120  
 cttttactcg aatgtctgat tgagtcctgt aatataacga gagctcgaa attgaatgtt 180  
 gaagctctga gcccaattcaa acgacaataa ctttttactc ggatgtctga ttgaggcccg 240  
 tcatatctcg agacgctcga aattgaatgt tgaagctttg agccaattca aacgacaata 300  
 actgtttact cggatgtctg attgagtcct gtcatatatc gagacgctcg gaattgaatg 360  
 ttgatctctt aacgaatcaa acgacactac ttttactcgg gatgtctgat tgagtcctcg 419

<210> 14469  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 14469

agctttgatg caacatatgg agaggttaat gatacaacga gatgatggcg tocatgagag 60  
gttggatcaa atggagaata gagatcataa tgaagaagaa aggaggagaa gaggggaatga 120  
tgggttttgt agacaaaaag gaattgaggg taftaaactc aacatttcctn catftaaagg 180  
tgggttttgt agacaaaaag gaattgaggg taftaaactc aacatttcctn catftaaagg 240  
tgggttttgt agacaaaaag gaattgaggg taftaaactc aacatttcctn catftaaagg 300  
tcttattgtgg tgggaacaagg tacaataagg gagagcaaga aaagaagagg caatgggttga 360  
tacttggagc gagatgaaaa agatcatg 388

<210> 14470

<211> 437

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14470

agcttaacta tctccttaca taacacatca tcaatgcttc ttgctgtata aggatgctta 60  
agtgggtataa aatgtgaata cttggacagt ctatccacaa ctactaagat agcttcatac 120  
cctctggatt tgggcaatcc agtaataaaa tocatcgata tgtcatccca tatttgcctc 180  
ggaataggtt atgggtgtag caaacctcct ggagcagtag ccatatattt ctgtctttga 240  
cagatataac aactcctcac atactcctga atagtccctt tcattcccat ccaatatata 300  
tttgttgcaa tctccttata tgtcttataa aaacctgaat gacccctttg nggagtggca 360  
tgggaattctt gtagcaaac aggaatcaat tgtgactgac tggataaaaac taaccttcca 420  
ttgtacatca acacacc 437

<210> 14471

<211> 433

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14471

gtgatctctt agcaacggcg ctgcagctga ccttaacgag tcagttagtc atatgtaaag 60  
cttgaccttt acaagacaca ccatgtctaa caaactgctt atcccaaac tctcttaact 120

gtttcttaag ctcagttaac tctataggag acatctctata aggggctatg aatatggggtc	180
catcacccggg tactaaactct atagaaaact ctatctctct ctccggatggg agaccagata	240
tatctctcagg gatactttca ggaaaactctc tcacaacagg gaggtcacac atggaaaact	300
gtctctatct ctadggttata caagatcctg taactctnag catcttctct tagaactctc	360
ctctctctct ctctctctct ctctctctct ctctctctct ctctctctct ctctctctct	420
ctctctctct ctctctctct ctctctctct ctctctctct ctctctctct ctctctctct	480
ataaacatc	489

agccttcttangg	tttatgggttt	agggtcttaag	tatttatgggtt	tatgggttttag	tggtcttaagcc	60
tttaggggttta	nggtcttatgc	cttaggggttt	atgtttttagg	gctatggggtt	taggggttttg	120
gggttttgggt	ttagtgttcca	agccttangg	tttaggggttt	atgggtttaag	gtgtagtgttc	180
taagtctttaa	gttttagggc	tgagggttta	tggttttagtg	tctcagccat	agggttttagg	240
tcttaggggt	tagtgtttag	ggtttaggg	ttaagcctaa	gggttttaggg	tttagtgtct	300
aagccttang	gtttggggga	ttaggggtta	agccttacgg	tttatgattg	aaataaaaatt	360
actccatact	catatgcac	taatg				385

agctttcttat aatcaaacgt cattctccat cactgggcta ttctggtagg aattagttca 60  
cttcgacatc ttctatttac tgtcatccct cctttttttg gaacaaetty aacaggacta 120  
accatgagt tgtctgaaat tagatagata aggcctgcct ctaataactt gaggactttc 180  
tttcttaact cctccttcac tataggatcc aatcttctct ggggtggtt cacagctta 240

taattggctt ccaaatgat tttgtgcata caatatgatg gactgattcc ttttagatca 300  
 gaaatgtgcc aaccaatagc cgccttaagt cgatttagaa totgcaccag ttgatctctt 360  
 tctctctctt tbaaagagtt gctaattata acaggtttga tctcctcttc tccaagaat 420  
 acatacttta natgtgcggc aacgtctctt aattct 486

<112> DNA  
 <113> Glycine max

<223> unsure at all n locations  
 <400> 14474

apactactag aanatgaggt tnttacatcg gttatttaag actttcaaca tagattatta 60  
 atcgatgtta aaagtaacca tgttgaaagt attatcggtt acattgggtt tccaaaactg 120  
 atgttaacga ataaatacaa catcgattat ttaaatagcc gatgttatat gataagaatt 180  
 atcataaaaa gaaagttata aatctatata tcaacatcgg ttttttaaaa aaatcgatgt 240  
 taaactccac agttaacatc agttnnttaa aaaatcgatg ttaactggca ctaacaacat 300  
 ttgttttcta tta 313

<110> 14475  
 <111> 362  
 <112> DNA  
 <113> Glycine max

<223> unsure at all n locations  
 <400> 14475

tgaaatttaa aatatggtat ttactctctg gtaatcgatt accagaggat gtaatcgatt 60  
 atcagtggcc aaaacgcctt ctgaaatgtt nttaaatatt tttgaaagca tgtaatcgat 120  
 tacacaattc ttttaattca ttaccagcag ttgaaactgt ttataacagc tattaaaaat 180  
 ttgaattcaa attttaaaagc ctgtaatcga ttacacaatg ctgttaatcg attactagga 240  
 ggaattttcg aaaataactc tcaagagcca catctgttca agagtttttt taatagctnt 300  
 canaagccca taaatgggtg acttgggaca cgaatttctt tagagtnttt ctacacaaag 360  
 ag 382

<210> 14476

<211> 361  
 <212> DNA  
 <213> Glycine max

<400> 14476

ctgauttgta attaccccat gcactccctt aatgattata acatcatttc tggcgctaaa 60  
 gctgctctga aatctgatgg tgagggcaac tagcacatag 240  
 ttttttaaat ctctcccagt attcatacag gctctctcca ctgagtcttc taatacctaa 300  
 gttatccttc ctgatggctg tggctcttga agcagggaaa atgttttcta agaataactct 360  
 c 361

<210> 14477  
 <211> 458  
 <212> DNA  
 <213> Glycine max

<400> 14477

agctttctac aaattcaatg gtatgacttt tacacaattg tccgattcgg ggacataact 60  
 catctagacg ctcgaaattg aacaacgcaa gctctcgaga aattcgaatg gtcataactt 120  
 ttcacacgga tgtccgattc ggggacaaaa ctgatctaga cgtccgaaag tgaacaacgg 180  
 aagctctcga gaaatttgaa tggtcataat atttcaactg gatgtccgat tccaggacat 240  
 aatatactga gatggctaaa attgaacaac ggaaactgtc gacatattcg aatggtcata 300  
 acatttcaca cagatgtccg attcggggac ataactcacc tagatgctcg aaattgaaca 360  
 accgaagctc tcgagaaatt cgaatggaca taactcttca caccgatgtc catttcaggg 420  
 acataataat atatctagaa ctccgatatt gaacagcg 458

<210> 14478  
 <211> 344  
 <212> DNA  
 <213> Glycine max

<400> 14478

tgacaatgct taactaaggcg agctgcccg tgagtataat gatagttcca ccttcaatgt 60

ctctgattta tcttattttg atgcagatgg agaattctgat ttgaggacaa atccttctca 120  
 agagggagag aatgatgatg acatgaccaa gatcgagggg aaggatccac ttgcaggact 180  
 tggaggggtct atgacacggg ctagagcagg gaaagccaaag gaagctcttc atcaagtgtt 240  
 gtccatacta ttttaataca caccacaagt tcaacacaaa aagtcacaaag ttatagttc 300

<211> 14479  
 <211> 407  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14479

ctgagtttga gttaccttat gcactcctct aatgaactata gcatcatttc tggcactaaa 60  
 ctgctggggag ttggaagcca tcttcttaat taaatttttg gcttcagcag gactcatgtc 120  
 tccaagggct ccaccactgg cagcatctat catacttctc tccatattac tgagtccttc 180  
 alaanaatat tggagaagca gctgctctga aatctgatgg ttgaggcaca tggcacatag 240  
 ttttttaaat ctctcctagt attcatacaa gctctctcca ttgagttgtc taatacctga 300  
 gatatacttt ctgatggatg tggctctgga agcaaggaaa atgttttcta agaatactct 360  
 cttcaggtca tcttagctcg tgatggaccg tggagcaagg taataca 407

<210> 14480  
 <211> 448  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14480

agctntcttg aganaacgtt cttgagaagc tagagcttag ctacatacac cctcttaata 60  
 actaagctca cctccttgag aagattccta aagaagctag agcttagcta cacacatctc 120  
 tctaataget aagctacctt gcttgagatg agaagctaga gcttagctac acaccctcta 180  
 taatagctaa gctcaccctc agttccaaaa tacatgatag tacaacaaaaa gtccctacta 240  
 caaagactat tgaagatgcy ctataatada aggtctaaaac cctatactac tagtgggagt 300  
 gcttagctct actgagcttt agaagattgg gctaaagatt cgttaagacat aagcacttaa 360

acaatgaagg aaagctggag ttgctgcaca tgatgtccaa cgttatgtca aggaataaga 420  
 tgggctgca caatgcacaa tgcaagat 448

<210> 14481  
 <211> 319

<212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14481

caactggggc atgcagctt catgaacaac ttgtgataac tctctctctt ccaactata 40  
 gttctaaaaa tgaattctct tggttttaca agtttgagaa ttttgtctca gcttcaatgg 120  
 gatttgaaaa ttggaggaaa ttggaatttc tctcacaatt tcaattggat ttgaaattga 180  
 atttgtggag ccaatttttg gagccaaaat ntcaaatat gattagtga ttttagttat 240  
 gtttcagccc actaatccaa gatcaagtc aagaatctcc actaagtgtg cttaggtgtc 300  
 atgaagcatg taaagcatg 319

<210> 14482  
 <211> 314  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14482

acctgctgtt cgacgggcat cgttcacggc tagccaagca gcttcaaaaat ctgtacaagt 60  
 tccaaagggc tatcttgacg tgtatgttgn ggaagaaaca aaagcgggtg tggttcccg 120  
 atcatacttg aatcagcctt catccaaga tctcttgtat caagctgagg aagagtttg 180  
 atatgatcat cctcgggtg gcttcacaat tcttgcagt gaagatgttn tccaacatat 240  
 aacttctcac ttgaattgag accacacatc tcactgtggg agactccat agattagtag 300  
 acattntaca ctat 314

<210> 14483  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14483



aatacacttn caaggcattc aacacttact atgagcaaca tggaaataatt catgaggtaa 60  
cgtcacotta tacatcacia cacaatggct tggcagaacg aagaaataga actatccttg 120  
acatggcaaa gagcatgctt aagcagaaga agctacotca ttcattctgg agagaagcta 180  
tgcattatga tgcattatga tgcattatga tgcattatga tgcattatga tgcattatga 240  
tgcattatga tgcattatga tgcattatga tgcattatga tgcattatga tgcattatga 300  
tgcattatga tgcattatga tgcattatga tgcattatga tgcattatga tgcattatga 360  
tgatactgat aggtatcat ggtactggtg cctatagact c 431

<210> 14484  
<211> 473  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<230> 14484

gcttgtaggt taaagtctca cgattgtcat gtgtcatgc aacaattggt agcgttget 60  
atacgagaca tcttgccaaa caaagtcagg ttagccataa ctctgtatgtg cttttctctc 120  
catgtatat gttagcaaagt cattgacct gtcattgttg atgagctgga aaatgaggcc 180  
gcaattatac tgtgtcagtt ggagatgtat tttccccctg cttctcttga catcatgatt 240  
cacttgattg tgcactcgtt cagagaaac aaatgttgtg gtctgttta tctacngtgg 300  
atgtacccgg ttgagcgata catgaagac taaaagggt atacaaagaa tctatatcgt 360  
ccagaagaat ctattgttga gaggtacac gcagaagaag ccattgaac ttgttcataa 420  
tacattgaga aggtctaaact tgttgccct cctgagctct gacatgatga cag 473

<210> 14485  
<211> 352  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<230> 14485

tatttcagaa gggaattcta tcaatagacc tccatctctt aatggagagg ggtaccacta 60  
ctggacaacc tgaatgcata atttatcga ggcaatagat cttaaatact gggaagccat 120  
tgaaatangg ccttatatac ccaccacagt agaaagaggt tcaatatatg gtatgcacac 180

aagtgaagc ataaccatag aaaaacctag agatagatgg tctaaagagg atagaaaaag 240  
 agtacaatac aacctaaaag cccaaaacat aataacatct gccctangaa tggatgaata 300  
 tttcatagtt tcaaattgca agagtgcctat ggaaatgttg gaaactcttc gattaacaca 360

<211> 471  
 <212> DNA  
 <213> Glycine max  
 <400> 14436

tggttacctc tttcttcaat ataattcatg aatcacctgg ttgagtcttc tctgtggttg 60  
 tcttaactggg ttagcctcat cttctaaatt tcttcgatgc atacatgttg atgggctaata 120  
 aacaggaata tctgccaggg tccagcctat agctttctta tcttcttga gaacaaataa 180  
 caactctcc tcttgcctat cagcaaggga ggcggatata attactggaa aacttttgc 240  
 atcatccaag taagcatatt ttaaattaga tggtagaggg tccaattctg gtgtgggggg 300  
 ctggatagtg gtagaaagag atggtttctc agcctacacc tcataaagaa agtcgaggta 360  
 tgtgtactta ctgaaacatg gttagtgtga tctgactcta taaaatcaat ctctagaggt 420  
 aagacatcac cagacatgta atcaatatct aattcatatt caactctaac a 471

<210> 14437  
 <211> 454  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14437

atcatgaaac tacctttact tactcttcat tctgagatca caatagaata cgcctagtta 60  
 cctacgagtc aaaagacatc tttacttga agaatgaata tagttaaggt aaaaatgaac 120  
 tcatttcaac tgaagcaagg aagtccttc atctattaga aggtgagttt cagctgcttc 180  
 tttctccgca tatatttata gaaagaaaat gaagtataaa aattcaggca gaattcagca 240  
 tctataact ttcgcctgtg tccgccttgc attactaac actgaaacat atatgccttg 300  
 tcaaaaatgt caagcataac attcagaga ataaagtga gtcagtaac aacaaccatt 360

gattttaatgt gaaagcagcg gaaaaatgac acgttgctnt ggcatatggc ttcgaggcac 420  
 ttaactgott ttaactatttc ccatagcccc tctc 454

<110> 14438  
 <111> 343

actttgcttc aaggtggatg caattgagcg agaagttgac ctgggaagta ctgttcaatg 40  
 cgaactgacc atgtcttcag tctttgtttt agtcacataaa aagccttctt tagcttgaga 120  
 attttgtctt ctcttaattt cactttaat cccaaagggtt gttcgatgta caattcttcc 180  
 atgaggactc ctttcacgaa ggtagacttc acgttcattt gatgaattct ccaactagtgt 240  
 ttagttgcaa gagagattat tagtacgatg gtctccaggc gagcgaccag agcaaacacc 300  
 ttaacataat tgataattgt gaaatttgag ttaatttgat agt 343

<110> 14439  
 <111> 272  
 <112> DNA  
 <113> Glycine max

<400> 14439  
 catgaatggt acaattctta gcaccttoga cagagtctat tgaataacca catggctcaa 60  
 agtcaaagtc acaaatctca gaatctggaa gaattattct aatgccagaa ttaacagtca 120  
 taatggcagc tgaagctgat tgttctttgt agaaaacctg tgcctatctct ctatcaggcc 180  
 agtcattgac atctctagag tgtaaacatt gtccgatgga gttacagaat ctgcagatgc 240  
 agagtagaca tgcagttct gtgatttctc tt 272

<110> 14490  
 <111> 492  
 <112> DNA  
 <113> Glycine max

<223> unsure at all n locations  
 <400> 14490

tactcagctg acctctagaa taaaaaataa ggggtgctctc tctaataatat acaaaagana 60  
 gatcaagaa ttaactgca ctcttacaag aaatttggac acatgaaaaa agagtgtcca 120

aggtacgttg catggcgtgt aaagaaaggt aaatctcttg ctcttggttg ttttgaagtt 180  
 aatttagcag tctttcccat ttatttgcgt atctaattgat ttgtttaatt aaattgattg 240  
 acacaatata ttgtaaagta atcctctattg ttaaaattga ttgattaaa attacataga 300  
 ttttgcgttg ttttgcgttg ttttgcgttg ttttgcgttg ttttgcgttg ttttgcgttg  
 ttttgcgttg ttttgcgttg ttttgcgttg ttttgcgttg ttttgcgttg ttttgcgttg  
 aaagaaaggt aaagaaaggt acgtttattt gacagaattt atgttcaaaa ttttgcgttg 480  
 ttttgcgttg aa 492

<210> 14491  
 <211> 326  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14491

acaatggaag ttgtctagan attcanatgg ttctatcttc tcaaacggat gtctgatttg 60  
 gacacataat atatcgagac gctagaaatt gaacgattga acctctcgag aaattcaatt 120  
 ggtcataacg ttccacacgg atgtccgatt cgggcgcatt atatatcgtg acgctcgaaa 180  
 ttgaacaacg gaacctcttg agatatttaa atggtcataa ctattcacac gaatgtccga 240  
 ttccagggact taatatatcg agacgttoga aaattaagaa cggaacctct cgtgaaatto 300  
 atatgggaat aaattttcac atggat 326

<210> 14492  
 <211> 469  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14492

tagaatgcan aagaagaaga agaagcantic aatttaacaa tgtttttttna atgcgtaaga 60  
 ataaattgat tacaataaaa taaatgagat aggggaagag agaaatgcaa actcgattta 120  
 taetgggttg ggcatttccc gtgcctgagt caagtcttca agcaacctac ttgagatttt 180  
 cactaacttt glaaaatcct atttacaact ttgaaacac cgaggaaatcc ctttcccttg 240  
 ttttcaggaa acttcacaat tcaagagaca accaatctct tgattacaa tgactttctg 300

agatgaacag aatgattttct ctcttttaga gtggatgata caaattgaag ttcttagatg 350  
 aaotctcaat agatntgtaa gtgttttgccg aagatntttt aagagagcat ttggcaatga 400  
 atntctctta gaatatctct ctcttagaatt ttgaagtcag acacacata 469

<10> Glycine max

<400> 14493

tatgaacgca gatttggaga tgagtatgat tagagaatta tagttcttct ttggaacttca 60  
 attcaagcaa acagatgaag gcatacatat acgtcaaaac aagtatgtga aggaacttct 120  
 gaagaagttc aagatggagc atgcaaaagtc aatgaagacc ctatgcctcc aaccattata 180  
 gtgggactgg atgaagaatt aaagcaggtg gacaaagaga catatagagg aatgatagaa 240  
 tctcttttgt agctcactat gtccagacct gacattatgt tcagtgtatg cctcttccaa 300  
 aaggaaccaa gggaagttca tatctctatt gttaaatgca tatitagata tttagtggga 360  
 actcctaacc ttggtttgtg gtttaagaga gaaaaggaat acatgttgct tgattattgg 420  
 gatagogaat ttgtccgaga tagagtggaa agaaagagca cacatga 467

<110> 14494

<111> 376

<112> DNA

<113> Glycine max

<123> unsure at all n locations

<400> 14494

actttccaca tntttacata gaatngatgt tattctctct atggaattgg ttatgcaaac 60  
 atgcaataaa tgaaactcca attcagattg gagaatagca taaaaaatac tcaattaatt 120  
 aatttggctc aggttttgtt ctcttaacct agggtaacaa ttattgcata gggtttatgt 180  
 tgaaatggaa attgttttgt gacgacatgt tgcctgtntg gttgggtggat caatcacgag 240  
 gctaaaggaac aagaagagaa gagggccact actcagttga tgtttgattt gggttataag 300  
 gcttatggga agggcttcta tggacatgac attgaatata ttgaagttgc actcactatc 360  
 ataccagggc ctacat 376

5507 14495

<L10>	14496
<L11>	392
<L12>	DNA
<L13>	Glycine max

```

agctntacac attatataga atcaaatggt atctctcatg agaattacca atatccggaa 60
taattgctag cataaatctc taagggtata ttcacatgag attattttta agtacataat 120
taattctaaa gaataaagct aataatggtt tatatcaata aacaaataat gatcgagttt 180
atattacatt atacatacat atatatatat atatatataa ttagtatata attataatta 240
aggagtctag tctattttaat taaacatgtg ttgagttaga gtatactctc ttatactcgt 300
ctctaaattct tatgaataag aaaatataac aaagtataaa taaaatataa tattaatcat 360
taattttttt acagaattac taaagtgata ta 392

```

```
.223>      unsure at all n locations
.400>      14497
```

644

caaaatttgcg catatgatga tcaaggacca caatgtgctt ccccttgcg tgcgtaagtc 180  
 tgacagggaac ctgaagtggc tgaatttcac caacaaaaan gtcggaacaa tacaaattgg 240  
 actccacagg accatctaat gtcccagtaa aatatattag acctgtatcc tcattccacc 300  
 ccccaatata cccaaccata cctccacctt cactgatggg tcccaaacaa gtccgatttg 360

<210> 1417  
 <211> 318  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14498

tctacatgag ttatgtctgc gaatcggaca tccgttgaaa tcttatgacc atntgaatnt 60  
 ctccagctgc tccgttgggt aattccaagg gtctcgatat tctatgtcct caaatccagac 120  
 atccgagaga aatgttatga ccattcgaat ttgtcgagag cttccgcttt tcaatttcga 180  
 cgcctctagat gagttatgtc accgaatcag acatctgagt gaaatgttat gaccattcga 240  
 atttgtcgag agcttccggt gtccaatttc gagcgtctag atgagttatg tcaccgaatc 300  
 ggacatccgt gtgaaaagtt atgaccatcc ggtcttgctg agagcttccg ttgttcaatt 360  
 tgaagcgtct cgtatatatta tgtccc 386

<210> 14499  
 <211> 235  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14499

gctgttacc cctgggttgaa ttgcttacta tagagctngt catagcacca cttaaattgct 60  
 tccctttgaa agttgttatg ggtttaaccc actaacctct cctgatcttt tgccctatgct 120  
 taatctttct gtttttaagg ataaaagaag gtcaaaagcaa agggcggacta tgtgaaaaag 180  
 cttccatgaga gagtcaaaaga tcaaatcgag agggaaaaata aaagctatgc taaac 235

<210> 14500  
 <211> 413  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14500

ttttctctttt ggtgcataga atgctgtana aaaaatagta tgtgtcatga atctctgaca 60

ttttctctttt ggtgcataga atgctgtana aaaaatagta tgtgtcatga atctctgaca 120

ttttctctttt ggtgcataga atgctgtana aaaaatagta tgtgtcatga atctctgaca 180

ttttctctttt ggtgcataga atgctgtana aaaaatagta tgtgtcatga atctctgaca 240

ttttctctttt ggtgcataga atgctgtana aaaaatagta tgtgtcatga atctctgaca 300

ttttctctttt ggtgcataga atgctgtana aaaaatagta tgtgtcatga atctctgaca 360

ttttctctttt ggtgcataga atgctgtana aaaaatagta tgtgtcatga atctctgaca 413

<210> 14501

<211> 393

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14501

tattctataa ccgacgacat ctctatgttg tgtgtcagtt ttcactacta taaaaagagg 60

gtttacatc ggatatttaa gactttcaac atagattatt aacgatgtt aaaagtacca 120

atgttgaaaag tattatcgtt aacattggtt ttccaaaact gatgttaacg aataaatata 180

acatcgatta tttaaatagc cgatgttata tgataagaat tatcaaaaaa gaaagctata 240

aatctatata tcaacatcgg ttcttttaaaa aaatcgatgt taacctccac agttaacatc 300

agtttttttaa aaaatcgatg ttaactggca ctaacaacat ttgttttcta ttataaagta 360

aaagaatgga gttttttgaa ttgagggggg ggg 393

<210> 14502

<211> 311

<212> DNA

<213> Glycine max

<400> 14502

actcagcttc ttgtcattac gagcgcctta ttattatgtg cctgtttcag acatccgagt 60

gaaaagttat gagcatttca attctcaag cactaccatt ttttaatttc gagcgtctcg 120



atataatcatg ggctcaatc gaacacccat gtcaaaagtt atggccgttt gaataggact 180  
aaagattccg tgttcaatta cgagcgtctc gatatacat gggactcaat cggacatcca 240  
tggtaaaaga tatggcgttc tgaattggac tagaacttcc gaggccaat ttgagcaggt 300  
cgatatatta + 311

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14503

atgagaatat ggttgagcc attggtcaag atgagccaca ttgcccatt ccttgccttc 60  
atgacatcag agttccactc ttgaggaagg aagttgaata tactgaaaat ttgataaaaag 120  
gcccacagga gcaatgggtc aagtatgggt ataataattat gtccgatgca tggactgato 180  
ggaacaaaag atgcacatt aattttttga ttaaatctca agttggtaac atgtttttga 240  
agtcctgtga cygctctgat tttgtaagga cgggttaaaa tatttttgag ttgcttgatg 300  
ccactgtgga ggaagttgga gaagagaatg ttattcaagt tgtaaccgat aatgggagca 360  
actatgtttt agcgggtaag ttgttgagg agaaaaggaa acatatttat tggactcctt 420  
gtgcagctca ttgtattga ttgatgttg aagatattgg gaagcttccc ttgat 475

<210> 14504  
<211> 338  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14504

tactcagctt actataccta tagttnacaa tgtttcttaa atatcttaca actgttttta 60  
taggaaagtg ataggaaggg aagacatcca gatactatcc agaggatgta aataacatgc 120  
tgaagtctct agcaagtta tctaaaagat taatgtacaa gtctaaattg ttagtcgttt 180  
tatccatcaa gtaagattnt agtatggta agagaaatat caaatccaa tttatgaaaa 240  
agataataat taattttcaa ttcttaagta cttgtacat ctcacaatga cataaatctt 300  
ataacttaact acgtatattc atatttttgt gggacaacaa aagaaaaat ataatagta 360

attttctgag gcccaaccana agttaaaa

388

<210> 14505  
<211> 424  
<212> DNA  
<213> Glycine max

ttctttagctt ggtttgattt aaatgtttat acatttacc ggatgttctg ttgattctg 60  
taatttatcg ajaggttcca aattgaaaac ggaaactcct agataattca aacgacaata 120  
gttttttact cggatgtccg acagagtgtg gtaatttata gagggatgct tcaaattgaa 180  
aacggaagct cgtatcanat tcaaacgaca ataactttct actaggtatgt ctgattgagt 240  
ctcgtaatat atcgagacgc tcaaaattgt gatcgaagt totgagaaaa ttgaattgac 300  
aataacttta tgcacggatg tcaagttgag tctctgtaata tatcgagaag ctgcaaatg 360  
aaaanggaag ctcttaggaa attcacaaga caataactct ctactcggat gtcctgattga 420  
atcg 424

<210> 14506  
<211> 347  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14506

agcttatacc anattcaaac gacaataact ttatacagc gatgtccgat gagtcccgta 60  
atatatcgag acgcttaana ttggaaaacg aagctcgtag acaattcaaa cgacaantaa 120  
catttactcg aatgtctac agagtcagat aatatattga gatgtccaa atnganaacg 180  
gaagctcgta ccaaatccaa acgacaataa ctttttactc ggatgtctga ttgagtccta 240  
taatatatag agatgtccca aatggaaaac agatgtcgtg gtcaaattaa tagacaataa 300  
cttttactc gaatgtataa ttgagtcctg taatatatcc aggaact 347

<210> 14507  
<211> 415  
<212> DNA  
<213> Glycine max



gcagcaaacct ggagcaattg agcagcctga agcttatgct gcaaatatctt acaatagacc 180  
 tootcaasct cagcagcaaaa atcaacacag cagagcaatt atgaactttc cagcaacaga 240  
 tacaacccctg gatggaggaa tcaccccaac ctacagatggt ccagccctca gcaacaacaa 300  
 caacagcctg ctccctccctt caaaatgctg ctggcccaag cagacccatag attccctcac 360

<210> 14510  
 <211> 353  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14510

actcagctta gcactttctgt agggtttccag ggccttccat cagctcttat taatctgcca 60  
 tatactcagc cgggtattagg cctcatgagc ttctccatat ccagcttact ggatttagtt 120  
 tggggaactt cctctttaga taattaggtg ttcccttttt atcatcgaga ttaaattgtat 180  
 gtcattatgc tcccttgctt tccaagatta ctggcctgat ttatggatgg agcaagaagt 240  
 ctttatctta tgcaggtaag ttagagttga ttagagcagc tattcaagga attgtgaatt 300  
 tctggatgga gatttttctt ttgcgcgaat ctgttctgga ccgaatcaac gct 353

<210> 14511  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14511

agcttcaaga aaaatatggc ctacagcanat ttcttatttc cagaatggaa ttctatcaat 60  
 agacctccaa tctttaatgg agagggttac cactactgga aaacccgaat gcataatttt 120  
 atcagaggcaa tagatctaaa tatctgggaa gccatagaaa tatggtctta tatacccacc 180  
 atagttagaaa gagtttcaat agatggtagt tcaccaagtg aaagcataac catagaaaaa 240  
 cctaaagata gatgggtctga agaggataga aaacgagtac aatacaactt anaagccaaa 300  
 aacataatag catctgcctt aggaatggat gaatatttca gggtttcaaa ttgtaagagt 360  
 gctaaggaaa tgtggggacac tctttaatta acacatg 397

<210> 14512  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400>

tttgaacat tataaaaaga ttatataat tatataagt tataaaaat gggaattgaa 120  
 gtagtgtaag ataataaaaa tggacatata nttttacata tattttagag taaaatatgt 180  
 ttttagtctt taaaaaata taaaaatttg attgtagtca taaaaaaatc ttattnttgt 240  
 cttcttaata tagaaataat aatgtcacaa aatatactat caagatcnga aatagagtat 300  
 ttccaattta gaggagcaaa aacaagacaa aagaattnta gatgactcta anataatta 360  
 agtttacgta catttaaaat aatataaaat gtattttatc ctaaaattcta atatcat 417

<210> 14513  
 <211> 331  
 <212> DNA  
 <213> Glycine max

<400> 14513

tcaccataac tggcatgtgc tttttcttcc atgctatatg taacaaagtg attgatccac 60  
 gaatgggttg tgaattggaa aatgaagccg caattatact gtgccagttg gagatgtaat 120  
 tttcccttgc tttctttgac atcatgattc acttgattgt gcattctggc aaagaaatca 180  
 aatgtttgtg tctgttttat ctacgggtgga tgtaccoggt tgagcgatac atgaagatct 240  
 taaaaggyta taaaaagaat ctatctgctc cggaagcacc tatttgtgag aggtacattg 300  
 cagaagaagc cattgaattt tgtcagaata c 331

<210> 14514  
 <211> 300  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14514

tcatataggt gaattcctaaa ataagtaact tgaatcatt tctgaagaaa atgggaatca 60

ccacaatttt tcaacccaag aatacctcaa caaaatggty ttgtggagag gaaaaataga 120  
 tcccttgaag aaggtgcaag aacctttcta aatgaaacaa gtctaccta gtacttttgg 180  
 acaaatgttg tacatactat gtgttacacc ttgaacagag taattattat gaactatttg 240  
 acaaaaaatc cttatgaact gtatagaga aaaaaattgg acatcacctg agatcttttc 300

<212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14515

atcacagatct ctgtccttct ttgcaactat ctggagtcac ttgagcaacct aaagcttatg 60  
 ctacaaacat ttataataga ccccttcagt agcanaacca acaacagcag aataattatg 120  
 atctttcaag caacagatat aatctatgtt ggaagaatca tccaaatctg agatgggcaa 180  
 gtccctcaca ataacaacag cctatccctc ctctccagaa tgttgttggc ccaagcaagc 240  
 catatgtttc ttctccaatg cagcagca 268

<210> 14516  
 <211> 355  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14516

agcttatgtt gcaaacattt ataatagact ttcttagca gaaaaacca ccacaacaaa 60  
 attattatga tctttcaagc aacagatacc atccaaggta gaggaatcaa tccaatctga 120  
 gatggacaag tctttcacia caacagcagc ttgtccctcc attctgaatg ttgttggccc 180  
 agcaagccat atgttccttc cccaatgcag caacagtaca acaacaaagg caacaagcaa 240  
 ctganggate ctcttcacct tctttagaag agttagttag gaaaatgacc atccagaata 300  
 tgcattnta gcaagagaca agagccttca ttcagagtct gacaaatcag atggg 355

<210> 14517  
 <211> 323  
 <212> DNA  
 <213> Glycine max

<223>        unsure at all n locations  
 <400>        14517

```

agcttgccctt gctctttgat atattngagg tattcatggg cactattaat gacaaattcc 60
tggggataaa ggtatgggtg ctcattgttc aaagcccgta ctaaggcata caactcctta 120
tgggtatgga aacttggga tggatgtagt gggcattagt tagcttttgc taaaaacatg 180
aaagattctt ctgttctct ccc 313

```

<210>        14513  
 <211>        276  
 <212>        DNA  
 <213>        Glycine max

```

ccctttttoga aagcccatga attggcggtat cggtcattgt tccctcaact tcgaggttgg 60
agctatgggt agtgattgct tagagaaatt cttcattctc aacccttttt tcggacccca 120
tgaattgtgt ttctgttcat gtgcctccca ccttcagatt gtgagctatg cgtagagatt 180
gcttagagaa attctccatt ctcaaccttt ttccggagcca catgaattgc gttgtcgttc 240
attgtgcctc caacttoga tttgaagcta tggcta 276

```

<210>        14519  
 <211>        360  
 <212>        DNA  
 <213>        Glycine max

```

ctgcagctat gacgctatcc agctcttgaa ccaggagga gaatgatct tatataggct 60
tcttaagggg agagagagga agactagaga ttggatcaa gtaaagtgtg ttaaggatga 120
agaaggcaaa gtcttagtgc atgaaaaaga tatcaaggaa aggtggaaag cgtatttcca 180
caacttatat aatgatggat atggatatga ctctagcagt ctagacacaa gagaagagga 240
cgggaactat aagtaactat gtccgattca gaaacaggaa gtaaaaggag cgttgaatag 300
aatgagtaac ggtaagggcg gtagggccag acaacatacc tattgaagtg tggaaaactc 360

```

<210> 14520  
 <211> 326  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14520

gagatgagcgc cttgagcgcgc cttgagcgcgc cttgagcgcgc cttgagcgcgc 150  
 aactgacccc ctagtgaaaa gttatgaccc tttgaatggc tctagagcct cttatgltca 180  
 atttagagcg tctcgatata ttatgcgcct gagactgacc tccaagtgaaggctatgac 240  
 cacttgaatt gctcaagagc ttccattggt caatttcagag cgtctcgata tattatgcgc 300  
 ctgaaaccca cctccatgtg aaaagt 326

<210> 14521  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14521

tggatccacc anaccatnt attacagaaa cccattcggg acatcatata gctaagaaaa 60  
 ccccaggaaa ccgcacata ggctctctca aaatccactt tgaacaacat acaagggttt 120  
 tgcctccctt ttgcttctt caccacctca tttgcaacaa taacactgtg tagcagctgt 180  
 ctgccttcta tgaaggcaga ttgtctctcg tcaatgatgt ttggcaaaat tttcttcaac 240  
 ctgcttgata agagctcggc cacaatcttg tatatgcac caataagcga gataggtctg 300  
 aactcattta gtgtttgggg atcggaacc ttatgaatta aggtgatgaa tgatgcgttg 360  
 ctctcttag ggaataccc acttgcgttg aattcatgga ggaagcgaat gatttgtcat 420  
 acattgac 429

<210> 14522  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14522



tctcttttga agttgttatg gttttaaccc actaaactct cttgatcttt tgcoctatgcc 60  
 taatgggttc tgtttntaan gcataaaaga aagtcaagca aagggggact atgtgaagaa 120  
 gtttcattgag agagtccacag atcaaatga gaggaaaaat aaaagctatg ctaaaacaago 180  
 caacaaadga agaaaadad tttcttcta acccgadag tttctttggg ttgacatgaa 240  
 tttctttttt tttctttttt tttctttttt tttctttttt tttctttttt tttctttttt  
 tttctttttt tttctttttt tttctttttt tttctttttt tttctttttt tttctttttt

<210> 14523  
 <211> 339  
 <212> DNA  
 <213> Glycine max  
 <23> unsure at all n locations  
 <400> 14523

ttcacttgag gcagccaagg ttccaagtg taaaggtaaa gtcccagata gtgaatttct 60  
 acttatatca agaattaata actcgccctaa tgcactaaaa atatctggaa tgtgtccact 120  
 aaaatggntt ccagcaagaa caagcctctt caacttggtc aagttaccaa tatctgggtg 180  
 aattttacct gttaaacct tttctaatag tactagtga c tgaaggttct tgagggcacc 240  
 aaaacttgaa ggaatTTTTT caatgagacc tctgtttgat ctaaaactcaa gtgattctaa 300  
 actgcccaga agctttttcc agtttgcatt gnggatggta acttgatgcc tgtgttctga 360  
 ttccacagcat tngaattagg atagagctt 389

<210> 14524  
 <211> 363  
 <212> DNA  
 <213> Glycine max  
 <400> 14524

gctccttcaa ctgcacaagg ttcttaatat tccaagagta tcttgogga accttcaccc 60  
 gacgaagaca ctgacaaaaa cttatcttta cttcttttga caaagcatgg caggctgggg 120  
 gcaagctaaa tttctttcca tccagccttg gatgcaactg tgatcgtata ccatalatna 180  
 ctatgctctg accgggtatt aagccatgct tegtcttggc tgaatggta aagagtgtcc 240  
 caatcacact gtcgcaaaac tcttttcca catgcataac atcaatacaa tgtctaacgt 300  
 caagatcaca ccagtaccca aaatcaaga aaatggatct cttctttccat atcaactct 360

gaattttta

368

<010> 14525  
<011> 432  
<012> DNA  
<013> Glycine max  
<014>  
<015>  
<016>

aaatagaagg tgtgtatccc accatcttctt gctagtagaa taatggtaaa ggtgtacta 60  
tcattggccc tcattttttt ccgtcattga ggggtgcaact tgggttggca ggtctctcca 120  
cccttggggcg tattctttga aagatccgtg cccctttttg caaatgttct gtagttgcac 180  
ccatctcggga accatataaa aattgtactg atactgccta aagaaggcaa ccattatgtc 240  
cttccaagaa tnggaactcg aaggctccaa gttagcgtac caggtaacag ctaccacgta 300  
agaatttctt ggaagaaatg tatcagcagt tctcatctt tgcctatgc ccccatcttc 360  
caacatataa tctttagatg gttcttgggg caagtagtcc ccttgtactt gtcnagtcc 420  
ggcaccttga ac 432

<010> 14526  
<011> 403  
<012> DNA  
<013> Glycine max  
<014>  
<015>  
<016>  
<400> 14526

agctttgagc caattcagac aacaataact ttttactcgg atggcttaac gaagcccgga 60  
atatatcgag acgtctgaaa atgaatgttg aacctctgac caacttaaac gaacataact 120  
tttactccga tgtctgattg aggcccgta tatatcgaga cgtctgaaat tgaatgttga 180  
aacctcttagc caattcaaac cacaataact ttatctcgg atgtctgact gagtcccgta 240  
atatatcgag acgtctgaag tgaatgttta agcttttagcc atttcaacga tataactttt 300  
actcggatgt cgtattgagt ccgaatata acagacctca aattgatgtt gagctctgac 360  
taataaaacg acatactttt actcgatgct gattggcccg aat 403

<010> 14527  
<011> 419  
<012> DNA

<213> Glycine max

<400> 14527

ataatagata agcacacata cttgagatga gaagctagag cttatctaca caacccctat 60  
ataatctaat cttacccaca tgacaaaaaa catdaaaata acagagaaaa gttcttatta 120  
cttctctctc cttctctctc cttctctctc cttctctctc cttctctctc cttctctctc  
cttctctctc cttctctctc cttctctctc cttctctctc cttctctctc cttctctctc  
ataatttagt cttatgggtc gaaatatacc ctaagggtca tgagaacctt agggcttttc 180  
cttggtatctc tagcccaatc tacttggagt cttctagcca atgccccttc ggggtaagag 240  
agcatcatta cttttcactc agatgtgga ttcaggcaca tcatatctcg agacgtctg 300

<210> 14528

<211> 468

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14528

agcttgctaa cccatggaag ctctaatat ctcccacact ttttgnngtg ggccattctt 60  
ggatggcctt gattttctca ggttccactt ggaccccatt tctaccaact acaaaaccta 120  
agaagactat attatctaca caaaaggtae acttctctat atttgcctag aggggtgttt 180  
tcttaaggac tgaaagaact tgcctgagat gtcttaagt atcatctag ctctactgt 240  
acactaaaa atcatcaaaa taaacaacta caaatctacc tatgaaatcc attaagacat 300  
gatgcataag cctcataaag gtgcttggtg tgttagtgag cccaaaagga atcactagcc 360  
atcctacaa accaaaactt gtcttgaaag cggntntcca ctcatcacc ttntcctcc 420  
tcatttggtg ataaccactt ttaagaatca attttgaaaa gatattgg 468

<210> 14529

<211> 446

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14529

tgagencata tgetatgcc atcatcttg tgccaaagta tlatgatact ntgagaatat 60



tatcgagacc ctctgtaattg aaaccagaag cccgtagcaa actcaaacgg caataaattt 300  
 ttactcggat gcccgaaatga atcccataat atatcgaggc gatcgtaatt gaaaaacagaa 360  
 gotatgagca aattcaaacg acaataaactt tttactcgga tgaataccgt aatatatoga 420  
 gacgctctta attgataaca aaagctctga gcaaatcaaa accacaataa ctggtttact 480  
 ..... 540

<310> 1453  
 <311> 493  
 <312> DNA  
 <313> Glycine max

<400> 14532

gattgcgct caagacattt atagaacatg ttgaagatat ttgttattga tgatcattaa 60  
 gtgtaattta cttattttat tttactgaca ctcttagttc atttatgata tgtttctaaa 120  
 ttttctgct ctatgttgc atgaatatct gtatttgaat aatgttagca ggtttctgtt 180  
 tgaataaaga cattatgttg tatcaattat gtactcctaa ctaatgatca tatttaggag 240  
 aagactaatt tctaatacat ggaagggaact atgtagatta agtgatgtac aacgcgcaag 300  
 acttgaattg gtttctattt ttaataatga aattatgatg tatccaatgt atagaacaat 360  
 ttaactcatc taatgtgcct tatgttagtt taatctattt atctatatag accacaaagt 420  
 gtagtaattg tacac 485

<310> 14533  
 <311> 493  
 <312> DNA  
 <313> Glycine max

<323> unsure at all n locations  
 <400> 14533

actcagcttc tatccaggtc catcttgggtg gtgaagctct ttcttctgtg cttattcctt 60  
 agtggatgac gccgcctctt acctctcttc ctctgtcttc cgtctcatct ccaggtggaa 120  
 aatcaccatt aaaggacctc attgaagctc atagatccag cctccataga agctccacaa 180  
 gcaagcttcc atccatggg caaaggctgt gtccactatt ctctgtaaat gttagaatag 240  
 gtttctcttc ttttgggctt tctattttga tgaattctta ccccccgaagc ttattggata 300  
 gaatactcca agaggatttg gctagagcag ctaaagaagg ccttaggatt ctcatgaacc 360



ccagaggcat cacattct

498

<210> 14536

<211> 535

<212> DNA

<213> Glycine max

acgaaactaag cttaacttgcg agaataccaa gaaattccct acctgctctt ctatcatatt 60  
tcttatgttn tcttttccat tgtttaatac aaaacacttg caaccaaaga catgaagatg 120  
ttagatgtat ggttttctac catgaacaa tccatatgga gttttcttta agatgggctt 180  
tattaaagcc ctattcatga tctaacatgc agtattaacg gcttcagccc aaaaatatct 240  
tggagagagga atatcatcca ttaaggctct agcaattctt tccgaagacc tatttttctt 300  
tccaacaact ctattttgtt gaggggtctt aggtgcagaa aaatttatgt caatgcctatg 360  
cttttcacaa aataaatcaa attctctatt tccaactca ccccccctgat caactcctaat 420  
agatataatt ntaggattct tcttattttg aataactttt gcaagtttcc tanatgcttg 480  
aaatgcatca tcttatgag tgataaatag tgtccaagtg tatctagaat agtca 535

<210> 14537

<211> 500

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14537

acactataaa actcagctgt tcttgaatt ccagacacaa gagagcttcc ttttttggga 60  
tgtaatttgc aacctgcaca atcagaatct ctatatcttg actcatccac tgatttaact 120  
ttctcatcta agtcaaggta ggttgaagtt gtcgttggag tatatggctc ttgcatctt 180  
ttatgcacaa tttcttaatt agttctataa agtattttgt ttgacatang aaggttccat 240  
gtttcatcta ctggacttgg agtccaagga agaaatttaa ctcaaccata atagacatct 300  
caaattccct ctacatacaa ctagaaaatt ccttacacaa aatttcatta ctagacacaa 360  
atataatata atcaacatat atttgaacaa ttaacaaatc actatttact tctttaataa 420  
acaatgtttt ctcaacttcc cctctagtga aaqaatgctt aattataaaa ctgcttaate 480

tatcatacga tgaccttggt

500

<210> 14538

<211> 535

<212> DNA

<213> Glycine max

tactcaagct tggatgcttg tccaanaggc aaacaagtca aagtcncttt tttataaaaa 60

ggtgtaagtt totacatcta aaccttttga actttttacac ttggacttgc ttggcccttc 120

tagaactatg agtttgagag ttgactatta tgcctctgtc attgttgatg attactcaag 180

atttaagtggt actttttttc ttgcttttaa aagtgttgc tttaaagctt tcaagaaact 240

tgcaaaagtt attcaaatg aaaaagattt gaaaattaag accttgagaa gtgatcatag 300

aggtgaattc caaatgaag attttaaaac tttttgtgaa gaaaatggga tttaagtgta 360

ttttctgtct actagaactt cacaacaaaa tggggctgca gagaggaaaa atttctgttt 420

gcaagaacta gcaagaacta tgttaaatga aactaactta gcanattatt tttggacgga 480

tgcataagt acaactggct atgtttctca tagggaattt aataatacct attta 535

<210> 14539

<211> 436

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14539

tcacattgaa tttagcacta aggcataatg atggtttngt gtatcttaac ataagagatt 60

tcagatggac ttgtactcta atcccacagc cgaccttttc acgagatctc tacttaaccc 120

tttgggtaaa tgatgggcca aattctgctg agttctcaca aactccactg gtatcacacc 180

atgcattgatt aactcccgaa ccattgtgtt totaacaccc aagtgtctag acttcccatt 240

atacacttga ctatatgctt tagccaaaag agcctgaacta tcgcactga tagacatggg 300

aggtataggt ttgggcccaca atggaatctc atagatcaga tttctttagcc actcagcttc 360

tttaccagct gctgctaaaag ctacaaattc atattccatt gttgaaattg taatgcaggt 420

ctgtttcttg gatgc 436



<210> 14540  
 <211> 373  
 <212> DNA  
 <213> Glycine max

ttagagaagt ttatgatgaa cctcttatag aacctgtcat acctaggaa actcctgatg 120  
 cctttaacat ttgatggtag tggcaacttt tcaatgatat ctatctttgc ctgatctacc 180  
 tcaattcctc gggtctaaaat tttatggccc aagactatgc cttcttgaac catgaagtga 240  
 caattctccc aatttaacac caagtttgyt tctacgcacc ttgttagtac cattgagggc 300  
 ctctacactgg aatggngyga taagaactga ttgaaaaagg ggtgaaagaa agaaatggag 360  
 aaatggatga aaa 373

<210> 14541  
 <211> 357  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14541

acctagacc ttgctcaaag taanttaatt acctcctaag tttaaagacc cagttagttt 60  
 ttgttaccat gggttattgg atacacgatg ttgaaaaat cctcgtgtga ttggggggct 120  
 aatgtaate taatgtccct attntaattg ttctaaaaag cttgctattg atgagctgca 180  
 acctaccata tgttattgca aaagacgaat cgacctgtca aacatcctgt gagaattgtg 240  
 gaggetgttc cagttaagat gaggggttgt tctattccat gtgattttgt ggtgttagaa 300  
 ataattggagg agacatncaa aatctccatt atcttaggta aacctttctt atcaacg 357

<210> 14542  
 <211> 483  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14542

agtcaactgc angctgcaag cttgggccttt tacgtctgga atgtgattgt agcatatata 60  
 ttccaaagacc cttaggtggt gtgttgatgg cttcttcccg ttccaagctt caattggagt 120  
 ctgtcttttt acagaacttag cttagacatct gttgagtatg taaacagcag tgtagaactgc 180  
 tttaactccac aatcttttag gtaatccctt atcctttagc atgcatctag ccatttctat 240  
 gcttctctctt cttctctctt cttctctctt cttctctctt cttctctctt cttctctctt 300  
 gcttctctctt cttctctctt cttctctctt cttctctctt cttctctctt cttctctctt 360  
 gcttctctctt cttctctctt cttctctctt cttctctctt cttctctctt cttctctctt 420  
 gcttctctctt cttctctctt cttctctctt cttctctctt cttctctctt cttctctctt 480  
 tct 483

<210> 14543  
 <211> 423  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14543

aaaaaaactc tagattctca agtcataagc atttacaaca acgatcacat tagagagggt 60  
 gaataatata ttaataaaaa ataataactt ttgcaaaata aaagttttat cacagggtta 120  
 gaaatatata tynnttggag tcatctactc atcagtaaaa taagtttaat aaaacatagt 180  
 ttgacatccc aatatatcta tgaagtaata ttccaaaaa aggtttttta gaaaacactt 240  
 ggtcagaaaa aaaggttaaca aagaaaacta agataatact taataaaatg gtttaataga 300  
 gatataattag catttgattt gtactagttc acttaataaa aactaccttc aattcttctt 360  
 tacacaacta taanggggtc cattaataaa aaaaactttg attacaaata agtattttgt 420  
 ctgtgtcac 423

<210> 14544  
 <211> 440  
 <212> DNA  
 <213> Glycine max  
 <400> 14544

tcttgatatg acagtcaccg ctttatgagc actgtacacc agcagcgctt cgaggccatc 60  
 aagggatggg cgtttctccg ggagcgacac aaaatataag caaaaaaaca cttaaaaaa 120

tatatatatg tatgttttagg tagtgaaaat accttagata tgcattgatg taagcaaaaa 180  
 aacacttcac aaaatatata tatgtatggt taggtagaaa gataccttag atatgcatgt 240  
 atgtaaaadaa aaaaataactt caaaaaatat atatatgtat gtttaggttag aaataacott 300  
 . . . . .  
 . . . . .  
 aggtagcaaa atacctcatg 441

<210> 14545  
 <211> 514  
 <212> DNA  
 <213> Glycine max  
 <221> unsure at all n locations  
 <401> 14545

tttatctntta agatcttttaa gtgcagaatt tcaggaataa tttatatctc atccagogca 60  
 agttgctgca gccagatac gcacactgct atataaacat gaaggctgca cgagttctgt 120  
 accaagtcog ggattgaaga gttattttgt gagttttggg acttgagtgt tttgtgagcc 180  
 acctgatgt caccctaaca tcaagtgttg gaactgagtg tgtagagttg atctctattg 240  
 ttcagagagc aatctctggt gtgtatttga tttactgta aacacgggag agtgattgag 300  
 aggyagtgag aggggttctc atatctaaaa gtggctctta ggtagagggt gcacgggtag 360  
 tggtaggtg agaaggttgt aaacagtggc tgtagatct tcgaactaac actattttag 420  
 tggatttctt ccttggttgg gtgccccca aatgtagggt acgttgcacc gaactgggtt 480  
 aacacttcac ttgtgttatt tactatgtta atct 514

<210> 14546  
 <211> 397  
 <212> DNA  
 <213> Glycine max  
 <221> unsure at all n locations  
 <400> 14546

ttgaattaga atttcaaag attttaaaag acttttttaa tcaggatttt ataaaaaaaa 60  
 gtcttggtgt attcaatcat gatttttata tagtataaat aagtattttg ctattcaatt 120  
 aagacatttg agatttttta aggaagacaa caaaatccgg ttgtatttaa tggggatttt 180

ttttataact tataaaaagt cttttggtat taaaaaatat atgaattttg atggattttt 240  
 ttaaagaaga tttttgatag atttcattga attttactag attttttctt tttttttcta 300  
 ntgggtacaa gaatttatct tctctcatcg tcaacacatan cggcttctct ctttaaatatt 360

-----

<211> 478  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14547

agggtccaa tgcctctgtt aggtctctcc atctcttatg taaatctagg atctttatca 60  
 gacactatgc tagatgacac accatgtaat ctgataatct caactaatata caaggaggtc 120  
 aactttctcta aggtaaatat gatattaatg ggaataagtg agtagaattg gtcagtctgt 180  
 caacaataac ccagatagaa tctacacctc taggygttct aggtagtctc acaacaaaat 240  
 ccctygaaat actgtcccac ttctattggg ttctctccaa gggcggtaac ttccttgaag 300  
 gtctctgatg ttctatctta gccttctgac agactaagca tgcatacaca aactcactaa 360  
 cctctctctt catgttgggc caccaaaaca tcatcttcaa atcctgatac atcttggtag 420  
 caccaggatg gatgtctang ttactcttat gtccttctct tangatcctc ttcctatg 478

<210> 14548  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14548

atgntcaaaag gacacttat atcctctctt aatcaactga cctacactca gcaagttttg 60  
 gtaaatgtta ggtacataaa gaacatttga tattaatttg gtaactgaac aggttgaaat 120  
 tgaatatgtt ccttttctt ttactggaat atagccacta ttcccaattc taacctttga 180  
 gacactagtt ggtttcaaat ctttgaataa agtcttatca tatgtcatgt ggttctgaca 240  
 accactatca atcaaccaac ttccacttga ttctctactc aagaagcatg tggccacaaa 300  
 cagtctgtcc tctcttctt cattagcaat ctgagctccc tcatcatggg gaattttgtt 360

gggcagatc accatttcat gccctatctg gttgcacttg ttacattttg c 411

<210> 14549  
 <211> 408  
 <212> DNA  
 <213> Glycine max

atcttgctaa cccatggaag ctctaatat ttcttacct ttctgggggtg ggcattctt 60  
 gctatggcctt gattttctca aggtccactt ggaccccat ttaccaact acaaacctta 120  
 agaaactat attatctaca caaaaagtac atttctctat atttacctag aggggtgttt 180  
 tcttaaggac tgaagaact tgcctgagat gtcttaagt atcatctagg cttctactgt 240  
 aactaaaaat atcatcaaaa taaacaacta caaatctacc tatgaaatcc ctttaagacat 300  
 gatgcataag ccttataaag gtgcttgggtg cattagttag cccaaaagga atcactagcc 360  
 atccatacaa accaaaactg gtcttgaaag cggttttcca ctcatcac 408

<210> 14550  
 <211> 300  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14550

gacacganna ataagataaa tagagtgttt aatggcataa aaccaatata gttttggtaa 60  
 ttgagattga aacattaaag cccgggcaac atttaaaata tgttgatgt tacgttcaac 120  
 acgtccatto tgttgaggag catacagca actagtgtga tgtataatto cttttgaaga 180  
 gaataaatct ttgagaagaa attatgtgcc gtgttttgaa cgtatgcatt ttattttgga 240  
 atcaaataga ctttctatta gaacaatgaa gtgttggaca tgggttttaa cctcagattt 300

<210> 14551  
 <211> 353  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14551

ccatcaatat catctcatgt tctagtaact ttccaaacaa agtagcaaga gacatattag 60

atagatctcg agattcaata atggttggtg ccttgggttg ccattccctg ctttaagcacc 120  
 tcaaaaacttt atttggaaat ttttttccca aagatgcaag atgattaatt atgtgtgtga 180  
 accttttttg catatcttct atgctnccat ctggattccat tctaaataat tcatattcat 240

<210> 14552  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14552

atgcaagct tctaaaactt atacaagaan gaagcctga taccacttct tggacttttg 60  
 gcttagana tcttaagaag gggggggggg ttgaattaa atatacaaaa ctattcccca 120  
 attaaaaat tctactttta atntaactaa acaacccaag attcctttta aaaaggaaat 180  
 cctaaataat aatgcaaatt aatcttacta aataaaaaata aaaagaaata aacactaaag 240  
 gagtttaagg gaagcgaaaa tgcaaaactca gatttatact ggttcagcca cacccttctg 300  
 cctaagtcga gtccccaagc aaccgccttg agagttccac tatatttcaa aatcccttta 360  
 caagatctga accacacaag gacaatcctt ccttctttt catatttctt tacaac 416

<210> 14553  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<400> 14553

agcttatgct gcaaatattt tacttttagc tcttcccaac cttatgtatc aaaaaacaac 60  
 acagcagagc aattatgacc ttccagcaa cagatacaac cctggatgga ggaatcaacc 120  
 taacctcaga tggcccagcc ctacgcaaca acaacagcag cctgctcctt ccttccaaaa 180  
 tctctctggt ccaagcagac catatcttc tccaccaatc caacaacagc aacaacccca 240  
 gaaacagcca acagtggagg cccctccata accttccctc gaagaacttg tgaggagat 300  
 gactatgagc aacatgcagt ttcagcaaga gacaaaagcc tccatttaga gcttaacca 360

tcagatggga caattagcta cctaattgaa tcaacaacag acccagaatt ctgacaagct 420  
gccttctcaa gctgtcta 438

<210> 14554  
<211> 430  
<212> DNA  
<213> Glycine max

<210> 14554  
ctcagcttgt ggcttggat cttcttcate aatggagtc tttctctctt gtttatcaat 60  
gacagnygaa tgcagaagga ggaaaggtga ttggagatgc cactccaagg agaagagagt 120  
caagaataag ttccaccaca taggaagcca tggataagag cttgaaggtt ggagaagatg 180  
artggagggga gagggagaga atgggcaaga caattatgcc tggatgagg totaaaattt 240  
gaagtgtaat ttctcaaatg atcaaatgag aaataatgca cacaaaaagg ctctatttat 300  
agcctaagtg tcacatgaaa ttggagggaa atttgaattt tttccaaatt tcacttgaat 360  
ttaaatttgt ggagctaaat ttggagccta aagttcacta attatgatta gtgaatttta 420  
gttatggttt aggcactaa tccaagatca agtccaagat tctccactga gtgtgtngtt 480  
atttgttttg tacgactaac ttttgtatag aaaaatattt tcaaaatatg gg 532

<210> 14555  
<211> 450  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14555

agcttatgct gcannaattt tatagacctt tctaacctta tcagcaaaat caaccacagc 60  
agagcaatta tgacctctcc agcaacaaat acaacctgg atggaggaat caccttaacc 120  
tcagatggtc cagccctcag caacaacaa agcagcctgc tcttctcttc caaaatgcta 180  
ctggcccaag cagaccatac attctctcac caatccaaca acagcaacaa cccacagaaa 240  
agccaatagt tgaggccctt ccacaaactt ccttcgaaga acatgtgagg caaatgacta 300  
tgcagaacat gcagtttcag caagagacca gagctccat tcagacctta accaatcaga 360  
tgggacaatt ggctacccaa ttgaatcaac aacagtcaca gaattctgac aagctgcctt 420

ctcaagctgt ccaaaatccc aaaaatgtca

450

<210> 14556  
<211> 459  
<212> DNA  
<213> Glycine max

atagaattct ccatatctcc aataatcttg ttggatctcc tgaatctct tgaatgaag  
agaagctcat aataacactt tcacaagtta agtatggtea aataactgac atatctcaca 120  
atagaaggtg aacataaaca tttctctgac tcacatctct atcttgcacg taactctgtg 180  
atagaagctt cattgaccca ccacagtttg tgatttgcgc acgaagaagt tgcctcagat 240  
gtaacatttg ttccggagta aaagccagga gccattggct ttggcaacaa tttatcacca 300  
tcaacatttg aaagaactga tgacatgtgt ggcctatctt ggggtctctg ttgcacacat 360  
aataggccta cctgtatgca tctgtatgac tcctagggct tacattgttc tctaccaca 420  
tcctccagta gttccagtgc cctatcttca gtccataat 459

<210> 14557  
<211> 472  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14557

cacactcttt ataacacact ctctctctgtt ggtcctcaat agatggagaa ctataaaatc 60  
agaataatga ctgacatata gattagtggg acctgtcaaa ttgttgattt ttaagaaata 120  
tgcgccacaa aaaaagagtg gtcaagagaa ttgtgttatag acagaggagc taccattctt 180  
ctgttttaga atgggtgttg tagctattag tgaaaataga aatagagaat atttctctta 240  
tgtcaaacag gcttctgcat tactatattt agttattaca acatgatgat agatcattat 300  
atatttttct tttctataaa aaaaatgatt tctttattga ctgggggtgg tgtatataaa 360  
aaattatcaa cacattttac tttctctct atgcctgttc attccaatgt acaaatgatt 420  
tggttatgat gcaacaaaat ctatctcagg aactaactag ctcttttaat at 472

<210> 14558



<111> 524  
 <112> DNA  
 <113> Glycine max

<123> unsure at all n locations  
 <400> 14558

tctcagtttt tattttgcac tttttattha gg'cct'aaat' a'aa'gata' gggat'g'aa' 120  
 aaataaaaagt gtactagtag gtaaaatatg ccatgaaatg aaaatagata atttcacaaa 240  
 tttctatggg ttgcagttaa ataaattatt tttcctctac ttgcttatta atgaagcatg 360  
 gataagtaac aatgtacacg aacctacggg tacagtaatt tgaaattact taatttggtc 360  
 taatttaatt aaaatataaa taattcagaa ttatttattt ttagttttaa tataatgtttg 420  
 aaaagtattt aattttttat aatcattct tcaaactntn ttagttntat ttaattaaca 480  
 gatattcagg tataacogta gatatactca caaatatnta taaa 524

<110> 14559  
 <111> 453  
 <112> DNA  
 <113> Glycine max

<123> unsure at all n locations  
 <400> 14559

ctcagcttga atgcctattc atggagttgc aagaacatcn ctgattttac aacactngca 60  
 cagngggccaa agatgcatgg gagatcctga acatcactca tgaaggaacc tccaaagtga 120  
 agatttccag attgcaactc ttggctacaa aattcgaaaa tctgaagatg aaggaggaag 180  
 agtgrattca tgacttccac atgaacattc ttgaaattgc caatgcctgc actgccttgg 240  
 gagagaggat aacagatgaa aagctgggtg gaaagatcct cagatccttg cctatgagat 300  
 ttgacatgaa agtcaactgca atagaggatg cccaagacat ttgcaacatg agagtagatg 360  
 aactcattgg ttctcttcaa acctttgagc tgggactctc ggatacggct ganaagaaca 420  
 gcaagaatct ggctttcgtg tccaatgatg aat 483

<210> 14560  
 <211> 473  
 <212> DNA

<313> Glycine max

<323> unsure at all n locations

<400> 14560

attcagctta acatcagacc acttcacagg tgctggaact acttcacatg gctctgatgg 60

ctctatga atcctatcc ctctctgga gctctctc ctctctct ctctctct ctctctct

ctctctct ctctctct ctctctct ctctctct ctctctct ctctctct ctctctct

aggacttgag tctaagattt caagagagaa agcattgggt catcagagag atcattgggt 120

atcatggcag agagtttgaa aacagcaagt ttaactgaata ctgcacatct gaagggatca 180

ttcatgagtt ctctgcagcc attacaccac aacanaatgg catagttgaa aggaaaaaca 240

gcatcttgca agaggctgct agggtcctgc ttcctgcccc agaacttccc tataatctct 300

ggcctgaagc catgaacaca gcctgctaca tccacaacag agtcacactt aga 360

<310> 14561

<311> 432

<312> DNA

<313> Glycine max

<323> unsure at all n locations

<400> 14561

agttgagcat ggtaaaaaga ttctctcttt ttctctttaga ggtgactntg agcgtttgtt 60

tatgtaggag tccgagtcac ttcttgatta tttttctcga gtattggcca tagtcaatca 120

acttaaaaaga tatgggtgaag atgtcgatga ggtgaagggtc atggaaaaaa tacttcgaac 180

tttaaatctc aaattttgac ttcatctgta ccaacattga agaaaacaag gatttaaaga 240

ccatgactat tgagcaactc atgggttctt tacaagcata cgaagcaaaa caaaagagaa 300

aaattaaaca aaaggaggct acggagcaac tactacaact caacgtaaag gaagcaaact 360

atgcataatta caagagccaa agaggacgag gtctggggcca atatcgtgga ctgggactat 420

gacatggagg ag 480

<310> 14562

<311> 268

<312> DNA

<313> Glycine max

<400> 14562

aacctataaa gactatatta tctacaccaa aggtacaatt ctctatattt gcatagaagg 60  
 tgtgttttct aaggactgaa agaacttycc tgagatogcc taagtgatea totatgctcc 120  
 caotgtacac tacaataatc tcaaaatgaa caactacaaa totacotatg aaatccatta 180  
 acaatgatac tacaacotc acaaaaggac ctggtatggt atttaacaa aacacatta 240

<211> 1453  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14563

taagcaactc tttccttacc tcttcttca ttgttgggtc tagccttctc tagggttgtc 60  
 gaactgggct atagtcttct tccatcatta tcttgtgcat gaagttagaa gggctaatac 120  
 cttagagatc tgatatatgc caccbaatta ctctcttgtg tttcttcaga attctacta 180  
 acctattttc tcttttggat gtgagtgcac tgetgatcac cacaggctta gctcatctt 240  
 ctccaggaa aacatacttt agatggttgg ataatatctt taattcttcc tcttcttct 300  
 cagatggagt ctgtctcttt agttctcaa atctggtttc ctctcaggg atgctatctt 360  
 atcaatccaa gtctcttaag caagccttga gatctcttcc tcttctactg gtaggcaat 420  
 ctaccgcatt caccatg 487

<210> 14564  
 <211> 350  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14564

agctngagaa tggaggattt ccttgagggc cctctcttag gcaatcatgg aacacagctc 60  
 caaactcaaa aatggaggac acatgaatga caacgcaatt catcctatgg gctcagaaaa 120  
 aggctaagaa tggaggattt gcttgagggc cctctcttan gcaatcatgg aacacaaact 180  
 cctactcaga agtggaggac ccacgaacag gcttaagcaa taacattcat gggctcaga 240  
 aaaaggatga gaatggagga ttgcgtttag ggtcttatct tancgaatca tggaaacag 300

ctccaaactt gaaaatggag gacacatgaa tgacaacgca attcattcac

350

<210> 14565  
<211> 444  
<212> DNA  
<213> Glycine max

aggcaattt tagtcttctg tagcgaaagg atcgaaagtgg gcttgaanag aggcacaatta 60  
tattcatctta ttcttgataaa taagaagcct ggggcaaatg gagagagtta gaatgaggga 120  
atgtgtatag aagtggcctc agatatctta agaagggggg gctgaattaa gatattccaa 180  
actttctctc taattaaaaa tctatcttac tttttactaa agttatgaat tctttaata 240  
acaatcttct taatatataa tccaaatgaa gcaacttgaa tatgaatata aagcaataat 300  
aatataagga gattaaggga agagaaaaatg caaactcagt ttctacttgg ttgggcaca 360  
ccttctgtgc taagtcagt ccccaagcaa cccgcttgag agttccacta acttctaat 420  
tctttttaca agttctaaac acac 444

<210> 14566  
<211> 370  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14566

tactcagctn tactctctgg taatcgatta ccagaggatg taatcgatta ccagtggcct 60  
aatacgttnt ataacagcta taaaaatttg aattcgaaat tttaaaagct gtaatcgatt 120  
acacaattgt ggtaatcgat taccagcagt tagtaaacgt tttaattcaa attttaaaag 180  
attgaatcga ttacacaatt gctgtaatcg attaccagac aggaatttca gaanaataat 240  
ttcaagagtc acaacttttc aaaggcttta ctcatgacca ccaatggctc atatatatgt 300  
gaacthaaca cgaaatttgt cagagatttt cagaacaaca aagtgtttat cctctcaaaa 360  
agcaatttca 370

<210> 14567  
<211> 318  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14567

tatttaacatg gyytgaaaaa caagaaccag cctttgggtt tctcaaagaa aagattacta 60

aaaaatttca tagtgcacac ctttaactaac ctacctatga taaagagatt ta'gctttaa 120

taagagccct ccnacttgg gaacattacc ttggttccaa ggaatttgtc attcatagtg 300

attcatcaatc acttaagt 318

<210> 14568

<211> 442

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14568

tgetctgttt aggetctccc anaatctaga tgtaaactca ggatctttat cagacactat 60

gctagatgac acaccatgta atctgataat ctcaactaata tacaaggagg tcaactcttc 120

taaggtaaat atgatattaa tgggaataag tgagtagact tggtcagtct gtcacaata 180

accagatag aatctaaacc tctaggggtt ctaggtagtc ctacaacaaa atccatggaa 240

atactgtccc acttctattg ngttatctcc aagggcggta acttccctga aggtctctga 300

tgttctatct tagccttctg acagactaag catgcataca caaactcact aacctctctc 360

ttcatgttgg gccaccaaaa catcatcttc aaatcctgat acatcttggg agcaccagga 420

tggatgctca nngtactct at 442

<210> 14569

<211> 327

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14569

agcttagccc actagaacta atgatgctaa ttgtgttqca gatattgcca gatctaactc 60

ggtttgcacg gttggagtag cttaaagcaat ccttactaat caagaaaccc gtttttgcac 120

caaatcaatg catgccttgc ttaaaaagta ccgggttgta cataggggat ccacaccata 180  
 ccacccccaa accaatgaac aggtagaaat ttctaacagg gagatcaaga gaattttaga 240  
 gaagattgtg tagccaagca ggaaagattg gagtaccagg ctgatgatg ctctntggga 300

14570-14571: 14570-14571: 14570-14571

<210> 14570  
 <211> 110  
 <212> DNA  
 <213> Glycine max

<400> 14570  
 attcacggat gtctaattga gttctgtaat atatcgagac gctgcacaatt gaaaacggaa 60  
 gctcgtaaga aattcaatcg acaataaactt tttactcgga tgcctcgagt aatcaggtaa 120  
 tatatcgaga tgcctcaaat tgagactata agctctgagc aattgaatga caataaactt 180  
 atgcacggat gtctaattga gtcctgtgat atatcgagac gctgcacaatt gaaaatggaa 240  
 actcttagaa aattcaaacg acaataaactt tttactcgga tgcctcgagc agtgcgttaa 300  
 tttatcaaga gatgctccaa attgaaaacg gatgctcgta tcaaatccaa acgacaatga 360  
 ctttttgcct ggatgaatga tttagtcccc gaatatatcg agacactcaa 420

<210> 14571  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14571

agcttctagt ctcaattnta gcgtctcgat atattaccca attcaatcgg acatccgagt 60  
 aaaaagttat tgcatttga atttcttacg agcttctgtt tcaatttgg agcatctoga 120  
 tatattagag gactcaaccg gacatccatg tataaagtta ttgtcaattc aattttctta 180  
 gagcttcgga ttaaaatttt gagcgtctcg atatattacg ggactcaatt agacatccga 240  
 g'aaaaagtt attgtctttt gaatttgata cgagcttctg ttttcaattt ggagcatctc 300  
 tggataaaat acgacactct gtcgggcctc cgagtaaaaa gatattggcg tgtgatttct 360  
 taagagtttc gttcaatttg gagcgtctga tatattacgg gactc 405

<210> 14572  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14572

```

ttggtgagga ttgaggaaat attagggatc aacttgaaaac ttatgtgctt caagtgagaa 120
gaaatgcttc tttttccact agcgaagatg ttcaaagtct ggctatgaag atgggtcaaa 180
ctgagaagca tctgggtatct ccattggatt ataaacttat tgagctagct atgatattgc 240
cgtgtctgac agcatccgtt gaaagagctn tgcagcaat gaagattatc aagtctaaat 300
tgcgcaataa gatcaacgat gtgtggctca atgactggat ggtgtgttac atcgagcggg 360
agatattcaa gtcgcttgat gatattgata tta 393

```

<210> 14573  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14573

```

aatteatgca ggtggacgtt ctactaatta ttctgacttg cagcaacctn ctatccact 60
tncatttcca cctagagcaa ttcaaacaa aaagatggaa gaagtggata aggagatctt 120
ggagaccttc aagaaagtag aggtgaacat acctctgctg gatgcatca agcagattcc 180
aagatatacc aagttttctaa aggagttatg caccacaaa aggaagctca caggcaataa 240
aaggattagc atgggcagaa atgtgtcagc attgataggt aaatctgttc ctacattcc 300
tgagaaatgt caggaccag gtactllltg tataccttgc attattggga acagtataat 360
tgagaatgtc atgctagatc tangagcatc agntagtgtc atgctatgt ccatttacia 420
tctttatct 430

```

<210> 14574  
 <211> 375  
 <212> DNA  
 <213> Glycine max





taatgtact agaggtgac tcacatgcc aactcatgtc tctaaactgc tctaagaggt 240  
ctaactctct aacctcaaa gcagacatct gaagggattt cctactcaag gcacagcta 300  
ctacattggc ttacatggg tgatagctaa gctcaaaatt gtaacotta aggaactota 360  
aacatctct cctactatg ttaagctc 399

<211> 11  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14577

ctatctctaa gtcacctggc gcatgcaagc ttgacaatg caatctctcc caaaacttta 60  
tcattgtcat gttctgagcc tccattctct gtgtgcaaaag atctaagctg ttctctanag 120  
tcctctctaa gatactctgc ttgattctcc tggcgttggc cctcatcttg cttttcccat 180  
aactcatgta gttttagagc aaattcatgc atggcctctg ccaccccagt ttctgatatt 240  
ctactcattg catgattcca atcattgcaa attataaaaa ctggtggggc atcaagctga 300  
cttggagaga aag 313

<210> 14578  
<211> 393  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14578

agctngaagg caaactggat gcttgggtct tcttggttac ccagctggcc ttgaatcaga 60  
aataatgacc tgtctgaagg gtttgggtt tgtgtctctc tcttgaccac cctacagacc 120  
tttgcccttc catgcagcaa cctggagcaa ttgagcagcc tgaagcttat gctgcacata 180  
tttaccatag aactctctaa cctcagcagc aaaatcaacc acagcagaac aattatgacc 240  
tctccagcaa cagatcaaac cctgaatgga ggaatcacc ccaactcaga tggctcagcc 300  
ctcagcaaca acaatagcag cctgtctctt ccttccaaat gatgctggcc caagcagacc 360  
atacaattct ncaacaatcc aacaacatca aca 393

<210> 14579

<211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <430> 14579

atgctcaggc attaccacat ttggggcgta ttctttgaaa taccctggcc cctttttgca 180  
 catgtctctg ttgtgcctcc taccgggaac catatcaaaa ttgtactgat actgcctaata 240  
 gaagccaacc attatgtcct tccaagagtg gactcgagaa ggttcacaggt tagtgtacca 300  
 ggttaacagct accccagtcg gaattttctg gaaggaatgt atcagcagnt cctcatcttt 360  
 tgcgatgcc cncatcttcc gataatacat cttt 394

<210> 14580  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <430> 14580

tgtgaagtgt gtggaattcc tatagcaatt cccttatgtt atcaaacata aaaagggaaa 60  
 aggtaatatt gtagecgatg ctctttctcg gcgtcatgca ttactttcta tgcttgaaaa 120  
 aaaattgatt ggtcttgaat gtttgaaaag catgtatgaa aatgatgaaa cttttggaga 180  
 aatttttaaa aattgtgaaa aattttcaga aaatgggtttc tttagacatg aaggctttct 240  
 ttccaagaa aacaaattgt gtgtgcctaa atgttctact agaaatttgc ttgtttgtga 300  
 agcacatgaa ggaggtttta tggnngcatt tgggggtcaa aagactctag aagcattaca 360  
 agaacaattt tatatgcctc atatgagaaa ggatgtgcag aaattttgtg aacattgcac 420  
 tgtatgtaaa aaggcaaagt ct 442

<210> 14581  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <430> 14581

gtgtgttcttg tgatngagc tgaaaaagac tcttctttat aggtgtgtaa gctcgatcac 60  
 aaaggatggc atggccacta gctgcatgtg ttccaatcaa ctccgtaact tcatcaagtg 120  
 tcttcaattt gactttcca ccagtggag catcaagtaa ttgcttcgaa tggggtcgca 180  
 ataaagagat ttccaccttc ccttcagtg tcttgatg tggaaaat atcttcaaga 240  
 acttctccac cactcttctt tatatttga agttatt 300

<210> 14532  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14532

ggcagcaagg ttgaggggta aagtctcact atngctctgt gttgatgcaa caattgttac 60  
 ccgtggctat acgagacatc ttgocaaaca aagtcaggtt agccataact cgtctgtget 120  
 tntcttaca tgcctatgtg agcaaagtca ttgatcctgt cacagttgat gagctgcana 180  
 atgaaggcgc acttatactg agcctagtgg agatgtatct tctacctget ctctttgaca 240  
 tcatgattca cttgattgtg catctgggca gagaaatcaa atgtttgtgt cctgattatt 300  
 ttggggcggat gtaccaagtt gagcgataca tgatgatctt ataagggtat acacagaatc 360  
 tatatcatct agaagcatct at 382

<210> 14533  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14533

agctntgagg atattcanac gactttaact ttttcactga tgnengannn agncccgtaa 60  
 ttatctgaga ctcacganat cgaatgggta agctcagagc aaattcaaac gacaataact 120  
 nttaactcgg atgtctgatt gactccaca atatataaag acgctcgaaa ttgaatgtta 180  
 aagttctgag caaagtcaaa cgaacaatac tnttaactcg gatgtcggat tgagtcatgt 240

aatatatoga gatgtogta attgaatacc gaagatctga gcatattcaa acgtcaataa 300  
 ctntntacac ggatgtgctg atgagtcocg taatatatcg agcogctoga aattgaat 353

<210> 14584

<220> unsure at all n locations  
 <400> 14584

gaactacttc acatggactt gatgggtgctt atgcaagttg aaagccttgg agganaaaagg 60  
 tatgctatg ttgtgttgga tgattctctt agatatacct gggtaaat ttattagag 113

<210> 14585  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<220> unsure at all n locations  
 <400> 14585

agctngaaat tgaacatcgg atgctctoga taaaatcgag tggtcataaa ttttcacaca 60  
 gatgtccgat tgggtgaaat aatatatoga gacgcacgaa attgaacaac ggaagctctc 120  
 gagaaattcg aatggtcata acatttcact cggatgttcg atccggggac atatattatc 180  
 gagaogctcg aaattgaaca accgaagctc tcgacaaatt agaatggctg taactcttca 240  
 cgcgaatggt cgattcgggg acataactca tctagacgct cgaaattgaa caacggaagc 300  
 tctcgagaaa tttgaatggt cataagtnt cacacggatg tccgattcgg aacataatat 360  
 a 361

<210> 14586  
 <211> 340  
 <212> DNA  
 <213> Glycine max

<220> unsure at all n locations  
 <400> 14586

agcttgtaaa atagatntag ttattcactt tacttgcaaa agagagagtt ctagctgtct 60  
 aggaacttat acgttgatga accttgctta agataaatg aaaagtattc ctagaagcta 120

tcttatgaaa gatagacact ccaaggtact ttccaagatc cttagtccaa gcaataccca 180  
 tttctccact tagttgatedc ttgaattgag tctccacatt tttggaaaag aacattcaag 240  
 attttcccaa gcttaatttc tgcttagaac tcttgcaaaa tagattcaaa atattcttga 300  
 tagaattgac ctgtctccact aaagccttca taaataaaat 360

<210> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14587

tatatctaat ttatacgtgc atcttgatcc taaggggtgga tgttaatagt tacatgagaa 40  
 ataaagtata tgggttgata ttgtgttagg cagagaaagc aacggcaaga acagaagagy 100  
 agaggggtgat agcccatgag caagcaaagg caaaggaagc tggagcaaaag atggagctgc 160  
 atgaagctaa agcaaggcat gcagcagaga agctaagcgc caaccaatca cattatgggc 240  
 tccaccatgg ccacaacaac cctcccttag taggaacaac tcagactcac taccagcaag 300  
 ggcaccagca ccagccactt ggggcagttc ctatgcctgg aaccacttat ccattcttate 360  
 cactaggagg aaacctaac cctccaagga acaaacatat ataatagatc tatctgtgtt 420  
 ntgtgttagt acgtctactt cttgtgttat tactct 487

<210> 14588  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14588

ctgggtttct cctatntgta tctaagggtg gcataatcnn tttatgatga attgcatttc 60  
 ttctcaagtc caggtgtgaa tgagtatcag tgcacacatg acaaagtgtat taagctggac 120  
 atatatattg atgattgagt agtagctgaa tttatgcagt gtataggagc ctcaacaatg 180  
 gatgaatata cgaagcacat tgaaaaggat ccagctctgg agaggcgatt ccagccagat 240  
 gaaaccatac aaatactgaa aggacttaga gaacgtatg aaattcacca caagctccgt 300  
 tatacagatg tgcagttgtc acatttaaac gttctgtctc cttttctgtt cattttacct 360

attctattca tttatgctgg agatcagaca agtttcttta tttcttataa tatttatgta 420  
 gctggaaatt tttcaaagt atattaattt atctctttga attgtataca atagtttagat 430  
 tatt 444

<223> unsure at all n locations  
 <400> 14589

argagaaata actttgactc agatgtttga ttgagtcctg taatatatcg agacgtctgt 60  
 aattgaaaac aaaagctctg agcaaattca aacgacaata actttttact cggatgtctg 120  
 attgagtcctc gtaatatatc gagaacgtcg taattgaaaa cagaagctct gagcaaatc 180  
 aaacgacaat aacttttaac tgggtgtctc gattgtgtcc cgtagtatat cgagacgtct 240  
 gtaattgaaa agggaagctc tgagaaaaat caaacgacag taacttttaa ctggatgtct 300  
 cgatagagcc cgcanaata tcgagacgtc cganattgaa aacagaatct ctgagcaaat 360  
 tcaaacgaca ataactnng actcggatgt ctgatgtgt ccgtagtat atcgagaagc 420  
 tcagaattga aaccgaagct ctgag 445

<210> 14590  
 <211> 490  
 <212> DNA  
 <213> Glycine max

<400> 14590

ctttctatto tcaatttcca gtgtctcgat atattacttt actcaatcgg acatccgagt 60  
 aaaaacttat tgtcgtttga atttgcttag agcatatatt ctcaatttcg agtgtctcca 120  
 tgtattacgt gactcaatcg aacatccgag taaaatgtta ttgcagtttg catttgcac 180  
 aagcttctga tttcaatttg gatcgtctcg atctatgatg ggactcaatc ggacatccga 240  
 gttaaaagtt attgcggctt gcatttgcct cgagcttccg ctttcaacta cgagcgtctt 300  
 gatataattc tggactcaat cgaacatcag aataaaaaagt tattgtttgtt agaatttttt 360  
 tcagagcttc tgtttccat tgcagagctc tcgatatatt acgggactcc atcagacatt 420  
 ctaaaaaaa gttattgtcg tctgaatttg ctgagagctt ctgtctgcat attcagagct 480

ctcgatatat

490

<210> 14591  
<211> 418  
<212> DNA  
<213> Glycine max

gcatgcacat catcanaata aaaaataaaa actgtttagt taaagggtag tgcacnttt 70  
ttaatgagac aaaatttttt tgcgacgtat gaattgaaac ttgacatgac gtaagtgaat 120  
gtgataatca ggagagagga agaattttgc tgaaatgggc agagctaata gaggaaaacg 150  
cagaagaact tgcggcacta gatgcatttg atgcgngaa gtgttaccat atgtgttaga 240  
atttggaagt tccagcagca gcaaacactc ttcttacta tgcaggtgct gcagataaga 300  
tccatggcga ggtgttgaaa atgtcccgag acttccatgc ctatcattg cttgaaccac 360  
ttgggtgtgtt gggacacatt actccctgga atttccccc aaaccatgttc tacatcaa 418

<210> 14592  
<211> 434  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14592

tctcgctttt cttgtttaat tattatattt tgtttttaag ccttgtattt ggctatgttt 60  
tcatgacatt tgaatactta gtattttttt tattacttga ttagtataac tgaatatgat 120  
gattatattt acttgccttt ggggtgttat ggttatgaag ttttaaactt aattattttg 180  
atgatatatg actagaggta tgcactttta ttgggttatt atgaatgact ttctggataa 240  
tatgatattc tatgaagtat tatctttcta agattgatga atgggttaaga tatcttgttt 300  
gattgatttt ctattcttgt gtatgtcatt tatgtatggn ttttatatat atttgatcta 360  
ttcatgtttc ttgcttcatt attgggttat atttttccat gactgggtgtg tgaatgatta 420  
gttgtatttg tatgtttcat actttgtaag cacttttggc tttctgtgat gcccaggggg 480  
gggg 494

<210> 14593  
 <211> 225  
 <212> DNA  
 <213> Glycine max

<400> 14593

gagatgacc atggcagaga aatgaaaca gcagggttac tgaattctgc acatctgaag 150  
 gcatctctca tgaattctct gcagccatta caccacaaca gaatg 225

<210> 14594  
 <211> 348  
 <212> DNA  
 <213> Glycine max

<400> 14594

accttggata tcttttgcct cggaaacctc tcttttctca tgtgaacca aaccaatct 60  
 ccaggatgga aaacaacctt tctgcgcccc tctgttgctt gtttagcata actctcatc 120  
 ctcttatcaa ttggggcctt gactctatca tggagccttt tcacataatc tgttttggct 180  
 tgtctctctt tatgcttaaa aactgaaata ttacgcattg gaaacaaatc aagaggagtt 240  
 attggtattga aaccatacac aacctcaaaa ggagaacaac tagtggtgct atgcacgcgc 300  
 ctattataag caaattcaat gtgagggaag caaactttcc acatttta 348

<210> 14595  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<400> 14595

acatactctt catgcttctc accatgtcta ataaggcttc atttcttctg tctgcgacac 60  
 cattctgac cggagaacca ggcatagtgt attgggcaac aatccatgt tcttgaagaa 120  
 attccacaaa tgaacctggt gcttgctcat cctctgtgta tctaccataa tactccccac 180  
 ctctatctga tctcagcacc ttacattggt tccacattgt ttctcaactt cagcctcaaa 240  
 aactttaaag gcctctaaag ctctattctt agaatgaagt aagtagagat acatatarag 300  
 tgaataatca tctataaagg ttatgaagta ttctgtaacta ttctcatcta tgtctggaca 360



acatatgtct gtatgtatga tttctaataa at

392

<210> 14596

<211> 421

<212> DNA

<213> Glycine max

<214> cDNA  
14596

tctanactnt gtacaagaat gaagctctga taccacttgc tagacaagtg gccctagata 60

tcttaagaag ggggggttga attaagatat tccaaactgt tccccctaat taaaaatcta 120

cttcaactttt tactcaagtt atgaattccc ttaatgacaa tctttcttaa tattaattca 180

aatgaagcaa cttgaatatg aatataaagc aataataaat aaaggagatt aaggggaagag 240

aaatgcacaa ctcaagtttta tactggttcg gctacacctt tgtgcctacg tccagtcctc 300

aagcaacccg cttgagagtt ccaactatctt gttaaattcct tttacaagtt ctaaacacac 360

aaggacatcc cttcctttgt gtttagagat cctttacaac aagagaactca cagtctctta 420

a 481

<210> 14597

<211> 455

<212> DNA

<213> Glycine max

<400> 14597

acactattaa tgcattactg ttaaattccaa tatatataag taaagtttat agattacgta 60

ctaagtttca gaaaataatt atttattttt tttaaaaaaa aattagtaag cataactttt 120

cattctgaaa aagataattc agaattaaaa accttcggtt tggattacct tttctgaatt 180

gatcaaaaagg agtgggtgact gataataaac ttctggacta aaatttctat aaagttattt 240

atattaataa catatttgta aatctcatta agattttatt tatatttctt aattttctca 300

ttactaaata ttataaatca tgtataaata atattgaata taccaataaa ataaagattg 360

aaataaaaac ctttttaaga gaacaaaata ttttaagtaaa attctttttt tttctatacg 420

taccatagac ttattattaa gaataataaa tetag 485

<210> 14598

<211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14598

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90

ttcaaatggg cttgaattat cacacggatg tccgatttat gggatctata tatcgagagc 10  
 ctcgaaattg aacaaaggat gctctcaaga aattcaaatg gtcataaatt atcacacgga 240  
 agttcgattc agagcctata tatatcgaga agcttgaaat ngaacaaagg aagctgtcga 300  
 taaattcaaa ttgtcataac ttatcacacg gaagtcgat tcaggcgcat aatatatcga 360  
 gaagctcgaa attgaacaac ggaagccgtc gagaaaatca aatggtcata acttatgaca 420  
 cag 483

<210> 14599  
 <211> 121  
 <212> DNA  
 <213> Glycine max

<400> 14599

tcataaactta tcacacggac gtctgattca gccgcataat atatcgagaa gctgagaatt 60  
 gaacaaacga agctctcgaa aaactaaaat ggtcataact ttccacacgg aagtcgatt 120  
 t 121

<210> 14600  
 <211> 487  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14600

ntaatntatc gtggctgana ttgagnttac aatccaaagt totaagtatt aacaaaggaa 60  
 attgtggcca ataaatttaa gggataaatg atcatttgat totagatgta taaatttgtg 120  
 acatttgaat tcttataaaa aatgaaaatt gtgattttca tctttatgta aaaaaatgtg 180  
 adaattatat ttatcatatc aacttaatha ataacaaatt atattaatat ttttaattta 240

taattttaatg tcaaatattaat cataaaaaaat ataacttaat ctcaaaacttg tcccataaaa 300  
 ttttagctaca ggacattttgt taaaaatttt atacatttaa ggattaaatc aattttttgtt 360  
 ttttttcaac acctaatggt taccaattta cactctcaag aatcanatcg tttatcctaa 420  
 ttataagrat aagratataa aaaaaataa ttaataccta ttttaggcac ccattgataa 480

<210> 14601  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<23> unsure at all n locations  
 <400> 14601

cgacaataac tntntactcg gatgtctgat tgagtccega aatatatoga gacgctcgaa 60  
 attgaataac gaagcgttaa gcaaattcaa acgacaaaaa cttcttactc ggatgtctga 120  
 ttgagtccecg taatatatcg aaaagctoga atgtgaatgt agaagctctg agcaaattca 180  
 aacaacaata actttntact cggatgtctg attgagtcce gtaatatatc gagatgctcg 240  
 aatggaata ccgaagctcg gagcaaattc aaacaataat aactnnttac tcggatgtcc 300  
 gattgagtc cytaatatat ccgaacgtc gaaattgaat gtagaagctc tgagcaaatt 360  
 caaacgacaa taacttttta ctggatgtc tgattgagtc ccgcaatata tc 412

<210> 14602  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<400> 14602

atcettaagt cacttgcggc atgcagctat cactcggaga tctgattcat gtcattata 60  
 tatcgagaacg ctgaaaaatg aacaacggta gctctctaga cattccaatg ctccattacc 120  
 ttaactcgga gggctgattt atgcgcttaa tatattcaga cgtctcgcaat tgaacaacgg 180  
 aagctttcta tatattcaaa tggacataac tttctactcc gaggttcgat tcaagtgcac 240  
 gatttattca gacgctcgaa attgaacaat agaaactctt cagaaattca aatgggcata 300  
 atcctaaact cggaggtccc gattaagcgc atactaatcg agacgctoga atttacaatg 360  
 gagctct 367

<210> 14603  
 <211> 339  
 <212> DNA  
 <213> Glycine max

tttctaaaga ttctatggcct tgcgaagtcaa gacccgcaca aacatttgaa agaatttcac 120  
 attgtctgct ccaccatgaa agccccagat gtccaagagg atccatatt tctgaaggct 180  
 ttcttcatt cattagaggg agtggcacaag gactggctgt attacottgc tccaaggctc 240  
 atcaagagct gggatgacct taagagagta ttcttagaaa aaattttccc tctttgcagg 300  
 accacaacca tcaagaagga tatctcaggt attatataac tcagtggaga gagcctgtat 360  
 ggtactgtg agaagattta aaaactatg 389

<210> 14604  
 <211> 450  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14604

gtcagtttag tcaagggtaa agctaactat gagaaacott ctatgaatct caggtagtat 60  
 cctgctaagg ccaaaaatct cctaactctc aaaatagatt taggaactct ccattcaaga 120  
 accaacttcta tcttagaggg atctacaact atacccctt gagatatcac ataccctagg 180  
 aaactaactt tctctaacca aaactcacac ttgacaagt tagcataaag ttgtcggctc 240  
 ctaaggggtat gtagcacaat cctgaagtgt tcttcatggt cctctctagt cttggagtat 300  
 accaaaatat catctatgaa tactaccaca aaactatcta tgtaaggggtg aaagaattta 360  
 ttcatgaagt atataaacac acctggagca ttagccacac canaaggcat gactagatac 420  
 tcatagtga cattaacggg tcttaagca 450

<210> 14605  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14605

atattaccat aatctcanaa aaaggggagt agtgagtagt tattgcaaga agaaaaaaat 60  
 gtgagtttca attgtattct ttaataaaga agtaataaat ggcattataat caacgcttca 120  
 caacgcttca attgtattct ttaataaaga agtaataaat ggcattataat caacgcttca 180  
 caacgcttca attgtattct ttaataaaga agtaataaat ggcattataat caacgcttca 240  
 caacgcttca attgtattct ttaataaaga agtaataaat ggcattataat caacgcttca 300  
 caacgcttca attgtattct ttaataaaga agtaataaat ggcattataat caacgcttca 360  
 caacgcttca attgtattct ttaataaaga agtaataaat ggcattataat caacgcttca 420  
 caacgcttca attgtattct ttaataaaga agtaataaat ggcattataat caacgcttca 480

<219> 14606  
 <211> 351  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14606

atgggtccatt tcaagtacat gttatgatta ttacattgc acacaagatt gaattgacctg 60  
 gtgagtataa tgrgagtact acatttaatg tgrtgactt aactcttnt gatgtagatg 120  
 gagaagccga ttgaggaca aatcttntg aagagggaga gagtgatgag gacatatcaa 180  
 ggactaatgg caatgaacct ttataatgac ttggaggacc tgtgccaaagg gctagaacaa 240  
 agaagggcaa ggaagctctt caacaagtgt taaccatgct atttgaattt aggcccaagt 300  
 tacaagtgga gaattgtcgg attgtcaatt gtaccatgtt ccaagaagtg t 351

<219> 14607  
 <211> 487  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14607

ctttgtggag agggagctga ctgttaatca attggacagt atagtatgaa acattactgc 60  
 ctgcaataat ttaagtctta gtgatgaaga gcttctgag gaggggagga accacaatct 120

ggcggttacat atatcggtga actgcaagtc agatgctctg tcgaatgtac ttgtggacac 180  
 tggttcctca ttgaatgtaa tggccaaatc cacattagat caactttcct accagggggc 240  
 ccccatgaga agaagcggng tggttgtcaa agcgtttgat ggatcaagaa agtccgttat 300  
 tggggaattc tatttccca ttacaattgg gcccttttct ttccaaatta cattccagct 360  
 tgggagt

<J10> 14603  
 <J11> 235  
 <J12> DNA  
 <J13> Glycine max

<400> 14603  
 aattaatcca atttggcatg ggaagtatg gagatccggg atgttgagac gtccaagrac 60  
 caaaaacctt tgtgcatact gctatatcca aaaaagaaac atggaatact ccgtggtgat 120  
 aatttatgag gaggcataatc tcgcaaacca gggataaccc gacacccaat gggtgaaagt 180  
 gaggcataatt tggagaaaca tcatgtaaga gctcaaaagg agatatacct tttaa 235

<J10> 14609  
 <J11> 454  
 <J12> DNA  
 <J13> Glycine max

<J23> unsure at all n locations  
 <400> 14609

gacaattgaa gaggctatac atgtttcctt tgatgagctt aatgccattc ttccaaggaa 60  
 ggatttttta gatgatattt caaattcctt agaagataca catattcatt gaaatgactc 120  
 taaagaaaaa gatgaaggaa gcaatgagga ttctcaagat aatggagtta gagcacataa 180  
 tgaaccttca agagaatgga gagcctcaag agatcttccc ctgacaaca ttattgggtga 240  
 tatatcaaaa ggggtaacaa ctgacattc tcttaaatat ttttgcacaa atatggcttt 300  
 tgtatttatg attgaacctt anaatatataa acaagccata gttagatata actagatcat 360  
 tggcatgcaa gaagaactga atcaattga aagaacaat gtgtggaaaac tagtagaana 420  
 acctaaaaat tattctgtca tatgaacaaa atgg 484

<310> 14610  
 <311> 293  
 <312> DNA  
 <313> Glycine max

ccgacccggc atttaaggaa gcccttcacc ttgtcgggga ccacctctat cccctttctgg 120  
 attacgatga aaccgagtaa ttctcccgac ttgaccccaa nagtgcacta ggcgggactt 130  
 attcttaact aatactatcg tagtctctcg aacaactagt tttagacttg ccaatcatgt 240  
 cagcacatag acttaatttc ttgcgcacac atatcatgga ataattgtac cat 293

<310> 14611  
 <311> 397  
 <312> DNA  
 <313> Glycine max

<400> 14611  
 taacaaaagg catgtgaagt gggtggaatt cctagagcat ttcccttatg tttatcaaaca 60  
 taaaaaggga aaaggtaata ttgtagccga tgcctctttct cggcgctcatg cattactttc 120  
 tatgcttgaa aaaaaattga ttggctcttg atgtttgaaa agcatgtatg aaaatgatga 180  
 aacttttggg gaaattttta aaaattgtga aaaattttca gaaaatgggt tcttttagaca 240  
 tgaaggcttt cttttcaaag aaaacaaatt gtgtgtgcct aaatgtttct ctagaaattt 300  
 gcttgctttgt gaagcacatg aaggagggtt aatggggcat ttgggggtcc aaaagactct 360  
 agaagcattt caagaacaat tttatatgcc tcatatg 397

<310> 14612  
 <311> 377  
 <312> DNA  
 <313> Glycine max

<400> 14612  
 tctggctgct tattgcaggt tgacaaagtt agtgatcccc agaaaactcag gctagaagct 60  
 gaaaaaagag atgatgttgt atgcatactt gctttaagag gtaattggctt gcaagaattt 120

tgaatgag ttcaagacaa gctaaaggtg caaagttgaa accaatctgg atgtcaattt 180  
 aaatatacca ttgtactatt tgatatcgaa taaccogttt gtttgaacta cgaactattt 240  
 acatttgita aatcaaaatt ctattattca ttaacaggac tccatggttt gggtggaagc 300  
 tgggttccca ttggaatatg gtgaccttct cagcaccata catcaagttg caatrrrtca 360

<210> 14613  
 <211> 378  
 <212> DNA  
 <213> Glycine max

<400> 14613

gtctcagcat tgtcaagtgc tcatccttta attgttagcc cgggctatac gagacatctt 60  
 gccaacaaaa gtcagggtca cgataactcg cctgtgcttt ttcttccatg ctatatgtag 120  
 caaagtgaat gatccagtaa tgtttgatga gttggaaaaa gagggcgcaa ttatactgtg 180  
 ccagctggag atgtatcttc cccctgcttt ctttgacatc atgattcact tgatttgcga 240  
 tctggtcaga gaaatcaaat gttgtggtec tgtttatcta tggaggatgt acccgyttga 300  
 gggatcacatg aagatcttaa gagggctaac aaagaatcta tatcgtggcg aagcatctat 360  
 tgttgagagg tacattgc 378

<210> 14614  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14614

ttaggacaca tgaacganaa cgcaattcat ggggctctgt anagataag tatggagaat 60  
 tgcactaacc aatcactacg catggctcca aactcaaaagg tggaggactc atgaacgaaa 120  
 actcaattca tgggctccga aaaaggggtg agaattggaga attgcactaa gcaatcacta 180  
 cccatagctc caaactcgaa ggtggaggac acatgaacga aaacgcaatt catgggtctc 240  
 cgaaaaaggt tgagaatgga gaattgcaat tagcgatcac taagcatage tccaaactcg 300  
 aaggtggagg acacatgaat gaaaacgaaa ttcatgggtg tccgaaagga ttgagaatgg 360  
 agaattcaac taagcaatca ctacgcattg ctccaaactc gaaggtggag gacacatg 418





<223> unsure at all n locations  
 <400> 14617

gcgatgctc tttctcggcg tcatgcatta cttctctatgc tngaaacann aatgattggt 60  
 atgaatggt tgaaaagcat ghatganaar gatgaaactt tggagagaat ttttaaaaat 120  
 gtttgaatggt tgaaaagcat ghatganaar gatgaaactt tggagagaat ttttaaaaat 180  
 gtttgaatggt tgaaaagcat ghatganaar gatgaaactt tggagagaat ttttaaaaat 240  
 gtttgaatggt tgaaaagcat ghatganaar gatgaaactt tggagagaat ttttaaaaat 300  
 tggcctcata tganaaagga agtgcagaaa ttttgtgaac attgcattgt atgtaaaaag 360  
 gcaaaagtcta aggtaaagcc tcatgga 347

<110> 14618  
 <111> 429  
 <112> DNA  
 <113> Glycine max

<223> unsure at all n locations  
 <400> 14618

ctaagctctc gatatatatg cacatgaata gacttcgtng ttattatgac attgaattct 60  
 cagagcttcg ttgttcattn tgagcgtctc gatatattat gcaccagaat cggactttcg 120  
 tgtgacaagt tatgaccatt tgaattctc gagagcattc ggtgttaatt tcgagcgtct 180  
 ggatatatta tgcgcctgaa tcagacctcc gtgtgacaag ttatgaccat ttgaatttct 240  
 cgagagcttc cgggtgttcaa tttagagcgt ctcgatatgt gatgcgccag aatcggactt 300  
 tctgttgaca agttattacc atttgaattt ctcgtgagca ttcgttggtc aatttcgagc 360  
 gtcctgatat attatgcgcc tgaatcggac attcgtgtga caagttatga ccatttgatt 420  
 tctcagag 419

<110> 14619  
 <111> 442  
 <112> DNA  
 <113> Glycine max

<223> unsure at all n locations  
 <400> 14619

caataaagna agagcagcc tagtaacaag cacatctcca tttaaagggt cagcaacatc 60

aacatcaacta caatcctcca atggcagcat ttcacatca cttgagctct cgttctctat 120  
 gtctccatta tccagcaata tcatgaatct tttatttoga cattgagaag caatatgtcc 180  
 aatccttga cactaaaaac attctatata acaagatota gaagatgaat taatttctat 240  
 tttaccttta tgtgcaacaa atgaattttt ggacatagct tcatctgttg actttctcat 300  
 tttctcttga tttctcttga tttctcttga tttctcttga tttctcttga tttctcttga 360  
 tttctcttga tttctcttga tttctcttga tttctcttga tttctcttga tttctcttga 420  
 tttctcttga tttctcttga tttctcttga tttctcttga tttctcttga tttctcttga 442

<210> 14620  
 <211> 351  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14620

tctgnacctg tgcgaagggt ttgtggtttg tgttctcttg ctgaccacca tacagacctt 60  
 tgcctctcca tgcagcaaac tggagcaatt gagcagcctg aagcttatgc tgc aaatatt 120  
 tacaatagac ctctcaacc tcagcagcaa aatcaaccac agcagaacaa ttatgacctt 180  
 tccagcaaca gatacaacc tggatggagg aatcacccta acctcagatg gtctagacct 240  
 cagcaacaac agcagcctgc tcttctcttc caaaatgctg ctggcccaag cagaccatac 300  
 attcatccac caatccaaca acagcaaaaa cccagaaaca gccaacagtt g 351

<210> 14621  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14621

taacagaagc tctcagagaa ttccaatggt cataactttt cacaaggatg tccgattccg 60  
 ggcataata tctcagagag ctccaaattg aacaacggaa gctctcagaa aattctaatg 120  
 gtcataaatt ttcactcggg ggaccgattc aggcgcataa tatatcagaa cgtctcgaat 180  
 tgaacaacgg aagctcccca gaaattcaaa tggtcataaa ttttaactca gaggtccgat 240  
 ttagggcgaat aatatatcga gacgtcagaa attgaacata gaaagctctc tagaaattca 300

aatgggcata accttttcaact tggagggtccg attcacgggc ataatatatc gagacgctcg 360  
 atattgaaca acagaagctc t 381

<210> 14622  
 <211> 456

<212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14622

tgatctgtta agttatctta tttagccact gtctaatagc ttgagcactt tacacgaggc 60  
 aggttactgt gcagagaaaag agtgtgacga gcacaaacat tttctatagc aaatcttcaa 120  
 aaaaqtacaa ctgttcagag tegttaatgc aatctctact cccaagggca ttggatagaa 180  
 gactccaaga agattggggt agagatgcac cagaaggccc taggggttctt ataagcctta 240  
 gggtagattt tggacccatg ggctaagtat gagctcactt atctttgtac atattagatt 300  
 aatgtttcat tatcttttgg ccttgtattt agggccccat aatgtaggta gggtaacctt 360  
 aaattctagg atttttcagc ccttgtattt tagggccact agactaggtt tttgtattaa 420  
 gggtagtttt gtaatttcac atgcattaag tgaata 456

<110> 14623  
 <111> 328  
 <112> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14623

tcctatgggt tccacgagtt tcatgatggt atcagagctc ttcaactgaa gagcttttgt 60  
 gtacaactcg atctatcttc cttctctctc gtntccatga ttttcaacta gtgttctgtc 120  
 gcatatctta ttgtgttcac catgagtgca acacaggctc aagatcaagg atcttatgtg 180  
 cataccccgt attaccttca ttcaacttgg aaaagggtgca acaatatggt tgtgtcatgg 240  
 cttgtacaact cagtttccac ttcaatacta cagagtatat tgtggatgga caatgctcat 300  
 gataatgga aagaattgaa gtcatgat 328

<210> 14624  
 <211> 306  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14624

atgaacaac gtttgggtga ggttttagtg sangattatg aaattntgac ttcaactcaa 60

gaggtttt gttttttttt gttttttttt gttttttttt gttttttttt gttttttttt

aaagagtcaa acataattta aaatgtttt gtttttagtt tcaagaaagc attataat 120

gtagttagggc taggtttatc gagtataaaa atagattggt gcattgatgg gtgtatgttg 300

tattac 336

<211> 14625

<211> 424

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14625

tactagctt acgcaatgca ctctactcag ttttatagga tttgctaaca attaaacata 60

agtatattca ccaggaaaac attgtttgtgg aaggaaattg tagtgttgcg attcanaaga 120

tcctgccacc caagcataaa gaccttggga gtgtaacaat tccttgttca attggagaag 180

tcaatgtggg aaagaactttt attgatctgg gaaccagtat taacttaatg ccactctcca 240

tgtgcagaag gttgggagag ttggagatca tgcccactan gatgacctta caacttgttg 300

accactccat taagagacca tatggagtaa ttgaagatgt gttggtcaga gtaaaacatt 360

ntatctttnt ggcagactnt atggtaatgg atatctgtga agataatgac attcctgtaa 420

tatt 424

<210> 14626

<211> 433

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14626

agctggatgc tccctcttca ctacatcaag aatcaccggg ttgatgtctt ctctgtggtt 60

gtcttaactgg tttagctcca tccctcaaat ttattcgatg catacatgtg gatgggctaa 120

taatangaat gtcgcgcagg gtcagccta tagctctctt atgctctctg agaactgaca 130  
 aaaaattctc ctcttgctca tcagcaaggg aggcagatat aatcactgga aaactcttgc 240  
 tatcatccaa gtaagcgtat tttaaatttg atgpcagagg ctccaattct ggtgtggctg 300  
 gtaaaacacc accaaccagg atgcaatcaa tatcactctc agattcactc tcagcatcaa 400  
 att 463

<210> 14627  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14627

atcgggatgt ttgattgagt ccgcgcctat atcgagagcg tcgaaattga atgttgaagc 60  
 tctgagccaa ttcangcgac aatatctttt tactcggatg tctgattgag ttctgtaata 120  
 tatcgagacg ctcgaaattg aatgtttgaac ctctgagcaa attcaaacga caataacttt 180  
 ttctcggat gtctgattga gtctgtcat atctcgagac gctcgaaatt gaatgttgaa 240  
 gctctgagcc aattcaaacg acaataactn tntactcgga tgtctgattg agtctgtca 300  
 tatctcgaga cgtctganat tgaatgttga agctctgagc caattcaaac gacaataact 360  
 ctntactcgg at 372

<110> 14628  
 <111> 465  
 <112> DNA  
 <113> Glycine max

<223> unsure at all n locations  
 <400> 14628

taagctcctt caactgcaca atgttcttaa tatingaaga gtaactctgt ggaacttca 60  
 ccgagcgaag acactgacaa aaacttatct tctctctctt ggacaaagta tggcagcctg 120  
 ggggcaagta aattttcttc ccatcagacc ttggatgcaa ctgtgatctt ataccctat 180  
 caactagatc tgaagggga tcaagcctt ccttctctt gcttgaatg ttaaggagcg 240

tcccaatcac actgtcacaa acatttttct ccacatgcac aacatcaata caatgtctaa 300  
 cgtcaagatc acaccagtag ggaagatcaa agaanatgga cctcttcttc catatgcaac 350  
 tctgaatttt atctttcttt tgggtcttcc caaatacagt gttcaggtgt tgaaccgct 420  
 tctatctggt cagatctcgc cctctctctc cctctctctc cctctctctc

<210> 14629  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<23> unsure at all n locations  
 <400> 14629

ctttatagaa acaagccgag ccgagcctta cataggccga gccaaagacc ctcgacaagc 60  
 aggtcgactc attccaccc ctatctgtaa tcatacctac taaataatta gattataagt 120  
 gaatattata attataatca taactaattt ttaaaaaatg gatataattt gatataacta 180  
 gttattgttt ttaaaatatg aatatataat taattatgaa taaactagtt atataacaac 240  
 tatataacaa gttgcactca anaccaatta aatagttatg aatgaatata aataagttat 300  
 ttgaaatact catttctata aaattagtta tagttntata actataatta tttntaaata 360  
 agaatgagtt attacaata ctcatcacca t 391

<210> 14630  
 <211> 351  
 <212> DNA  
 <213> Glycine max

<400> 14630

agcatggatc caccaccag cttcttcgcc caatgcacca tgctcctgga gtaactcgat 60  
 ggcgaccgct gttgaggatc ctttcaccaa tcacgccag cacacgatta ttaagttgaa 120  
 actgtcttgc aaaagcagcc ccactttttg ccattgtgatt gtaaacagag ggtttaaaga 180  
 agtgaggctc catctttgga ggattgtccc agatcatata tcgtaagtca ccatttactg 240  
 ttgtgttctt aaattctgga gcattgcaaa cgaactgagtg aaagttagct ccttgagata 300  
 acttcacatt tgtaaaatac atcagtaggy tccgaggtaa attgtcccaa c 351

<210> 14631

<211> 352  
 <212> DNA  
 <213> Glycine max  
  
 <400> 14631  
  
 tgggactgaa atgactttgaa taagggaatct attctttctat tatgtgagca aaccagatca 60  
 caatctctga tggggaatctgga gggggaatctgga gggggaatctgga gggggaatctgga 120  
 tggggaatctgga gggggaatctgga gggggaatctgga gggggaatctgga gggggaatctgga 180  
 tggggaatctgga gggggaatctgga gggggaatctgga gggggaatctgga gggggaatctgga 240  
 tggggaatctgga gggggaatctgga gggggaatctgga gggggaatctgga gggggaatctgga 300  
 tggggaatctgga gggggaatctgga gggggaatctgga gggggaatctgga gggggaatctgga 352

<210> 14632  
 <211> 324  
 <212> DNA  
 <213> Glycine max  
  
 <220> unsure at all n locations  
 <400> 14632  
  
 tagccaccaa agcatgcocaa aaatntcctt ggcactatct ttcttgcctac gaaactnaga 60  
 agcagctctc tctaggtoga taaattcttc ccttctctga gctcaacaa ttgctttctt 120  
 ctcttctgct aaccggngga ttccagcaat ttcttcttc attctttcaa catattcggc 180  
 ctcttttttt tccatgcttt cctgataaaa gaatttcttt tttaaagtaa catacagcta 240  
 atttataaaa ccaatcatat tgatgcatta attgaacata agtctggtga cacaagaag 300  
 atccaattct ctggccaatt gtcac 325

<210> 14633  
 <211> 417  
 <212> DNA  
 <213> Glycine max  
  
 <220> unsure at all n locations  
 <400> 14633  
  
 tctatagaag gttcgttctt aatntctcta caatggcctc acctctattg atctggtgaa 60  
 gaagaatgtg gcaatttatct ggggtgaaaa acaagagcaa gcttttgcct tgcctanaga 120  
 aaagcttact aagacacctg tctagctct tctaaacttt tctaaaaact ttgagctaga 180



atgtgatgac tctggagtgg gagttggagc tgtattgtta caaggtgggt accctattgc 240  
 ctattttagt gaaaaacttc atagtgcac cctcaactac cccatctatg ataaagagct 300  
 ctatgcctta ataagagccc tccaaacttg ggaacattac cttgtttcca tggattttgt 360  
 catccatagt tttcatcaat cacttaagta cattagaggg aaaaacaagt taaacaa 420

<210> 115  
 <211> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14634

agcintctat ctatacctag aaatccaagt ttgcctctta tcttatgaag tttatgggat 60  
 taagatgggtc attgaaccaat ccttattcta tgatttaacc caattgccc aaatgaagatgt 120  
 accatttgaa ggtacattga ttgatgattg gaagtttgat tttctgtgc atgatgcccg 180  
 cgggttggtt tgcacccaac aagcggatat gacgggaagg cttcttgcgc gtccattggt 240  
 ttttgaaagc tgcacccctc attatctaat tgttcgcac ttgcttccaa gatcttccaa 300  
 ccttgacacag gttcttgaag aagatcttat tgttatgtgg gcttttcata aaggcctaca 360  
 aattgattgg gcacatcttg ttagatctcg catgcataag gcattgcgat tgaatgctcc 420  
 attgcatat ccacacct 438

<210> 14635  
 <211> 336  
 <212> DNA  
 <213> Glycine max

<400> 14635

agctggagtt gctgcacatg atgtccaacg ttatgtcaag gaataagatc gggctgcaca 60  
 atgcacaagg caagttaaaa tgcacaaatga agaattgaag ctgcaggatc cagcatgtcg 120  
 gatacaatgt ccaggacatc ctgcctcgaaa atactggagt tgcctgcacaa tgcacaaaag 180  
 ctgcaggatc cagcatgtcg gatacagatgt ccaggacatc tggcctcgaaa atactggaca 240  
 cataaatctg ctatctcttc aacagattat tgtgcagtta gcaagagata agatgatcta 300  
 cctttatgaa cgaattaaaa gataattaaa gttcgaatta caaactagaa gagttcgttc 360  
 aaggattaaa gattaaagat taaaga 386

<210> 14636  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<214> 14636 14636 14636 14636 14636 14636 14636 14636 14636 14636

atataaact aggettgatg cctatcaat ggaatcact tctatcact tctatcact  
 tcaatagagg ttaagatgca tgggagatcc tgaatcact catgaaggaa cctcctaaagt 120  
 taagatttcc aatattgcaac tcttggtac aaaattcga aatctgaaga tgaaggagga 180  
 aagtgatc cctgactcc acatgaacat tcttgaaatt gcaatgctt gcaatgctt 240  
 tggagagagg ataacagatg aaaagctggt aagaaagatc ctcagatcct tgcctaaagag 300  
 atttgacatg aaagtccatg caatagagga ggcctaaagac atttgcaaca tgagagtaga 360  
 taaatcatt ggtctctctc ataccttga gctaggactc 400

<210> 14637  
 <211> 327  
 <212> DNA  
 <213> Glycine max

<400> 14637

cttggacttg agcggcaatg gatttcttgg agaaggtatg tcaattcctt ctttctcttg 60  
 gacaatgact tcttgactc acctcgacct cctcctatct ggattctatg ggatgatcc 120  
 tctcagatt gggaaatctc caaatttggg gtatcttgac ctgagttcag atgttgccaa 180  
 cggaaacagta ccttctcaga tcgggaatct cctcagctt cgatctcttg acttgagcga 240  
 caattatttt gaaggtatgg caattccttc tttctcttgg gcaatgacct ccttgactca 300  
 cctcgacctc tctgatactc cattcat 327

<210> 14638  
 <211> 408  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14638

gaagctggcc ttatcgttgg acatatttgg tcttatatat ccaaacacac ttaatgctc 60

tgetgaaggc tnotteccat tccaagcttc aattggagtc ttgtctttta catacttagt 120  
 tggacatctg ttgagtatgt aaacagcagt gtagactgct tcagcccaga atgtgttagg 140  
 tagtcccttc tctttgagca tcatcttagc cattccata acgttgcaat tctttctctc 240  
 tctttctctc tctttctctc tctttctctc tctttctctc tctttctctc tctttctctc  
 tctttctctc tctttctctc tctttctctc tctttctctc tctttctctc tctttctctc  
 tctttctctc tctttctctc tctttctctc tctttctctc tctttctctc tctttctctc  
 ctcttgat 400

<210> 14639  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14639

cacaagcatt accttaatga anaatatgag taattttata tctcttgatt aaaaacggac 60  
 caaggcaactg atctcgggtg tccaatttac attgaacgac ttgngaaagc acatccaagc 120  
 aagctaagta tgtatttcac aacgataatt cgatatttga aatacttcat cgaggagttt 180  
 gagagtgcgc tytaggagaa atttctagta tgaccattg aagcaaattg acaaatttct 240  
 tcaaaagtaac aatagctcca attatattac aagtcataca aatatctcct atatggcaag 300  
 tctatttgaa tggtaactct atctcttctc gctaatgccat tgaggagtta ttatcaagtt 360  
 agtatatggt tgaataagct tatataanaa cactctatag acaantttct tttaaaaaaa 420  
 atat 424

<210> 14640  
 <211> 495  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14640

tttaaaactaa gctttcttgc gggatgaggg tntatgcac agaaagggtt attattgtct 60  
 gacatattct caattagctc aattgcttct ttggngctct ttagctctat tttccctcta 120  
 cagaagcctc tagtagttgc ttggtttgtg gtcttagtcc atctatgaac atattcaatt 180

ggattggcct	ggacaaccca	tgggtgggag	ttcttctcaa	taaacctcta	aacctctcca	240
atgtttcact	cagacattca	tcatagaact	gatgaaatta	agagattgta	gotttccoctt	300
ccacattctt	ggactttggg	aagtatttct	ttagaaactt	ttcaaacact	tcttcccagg	360
cttttgaggt	ctgaacttta	cgctttttaa	cttgcattta	cttttttgtt	ctgaatttga	420
cttttttttt	cttttttttt	cttttttttt	cttttttttt	cttttttttt	cttttttttt	480
cttttttttt	cttttttttt	cttttttttt	cttttttttt	cttttttttt	cttttttttt	540

```

<.10>      14642
<.11>      221
<.12>      DNA
<.13>      Glycine max

<.13>      unsure at all n locations
<.400>     14642

tcaccctggnt caagcatgac tttttttctg cttttgttgg cttgccttgc atagctcgca      60
ttttttcttt caatttgggc cttcacttgc tcatgcaact tcttcacata ctcagcttta      120
gctgttgcac ctttatgctt aaacatagca atgttaggca taggcaacaa atcaagagga      180
ctcaaaaggaat taaatccata cactatctga aatggtgaac a                                220

```

<210> 14643  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14643

aaatgctac tggccgaagt agaccataga ttctccacc aaaccacaa caccacacgc 181  
 cccacaacca gccaacagtt gaggtctctc cgcaaccttc cctcgaagaa cttgtgaggg 240  
 atataccat gongaacatg tagtntcaac aagagaccag agtctccatt cagagcttaa 300  
 ccaatcagat gggacaattg gctacacaat taaatcaaca taagtccat aattctgaca 360  
 agctgtcttc tcaatc 376

<210> 14644  
 <211> 350  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14644

gacacataga aactaagctt gatgcacatt gnagaggtta tgaaacaacg tttattttctt 60  
 tctctgagag gtgaatcaaa ggagntagag atcataatga agaacaagga ggagaagagg 120  
 gaatgatggg gttcttagac aaaaccgaat tgatgggtatt aaactcaaca ttctccatt 180  
 taaaggaaaag aatgatccag aggcttactt ggagtgggag atgaaaatag agcattatctt 240  
 ctcatggcag aactatgagg aggaccaaaa ggtgaagctt gccgccacga agttttctga 300  
 ctatgtctct gtgtgggtgga acaagctacg caacgagaga gccagaaatg 350

<210> 14645  
 <211> 371  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14645

agctttgatg gtcgnaatg ttttcaagg tgagttcgac gaggnaaagg ccccattgac 60

gcacggggcg ggcgaatggcg tgaagctcac gcacataagt tgaggaacac tgaagcttgt 120  
 ggcacaaaaat cttaactgaaa aacgcaatgg gatgagcgtt ttgagaaaagc atagctccca 180  
 tagcgagacc agaagcatcc gtctcgacgt cgaaggggat agtgaaatcc ggcggaacga 240  
 gaactctggc ggtgggcacc aactgcttga gtttgaagaa agcagattga gcatcatcat 300

<210> 14646  
 <211> 330  
 <212> DNA  
 <213> Glycine max

<210> 14646  
 ttcatgttga caatgtacaa atccaaaaat aattgataaa caccaaatcat tattgaattt 60  
 caaatcgcta aagttogaag tataacaaaa gaaaataaaa agagcataat attaaaaaat 120  
 gtaatggatta ggtcttcagc cctaaagctt acaaatctat ttttaagtcca agcccataaa 180  
 tgaaaaaata taatttggac aaaataagat aaaattggat gaaatagaat ctatgtgaaa 240  
 taaaatctag atggaataaa gtctggataa aataaaatct agatggaata taatctggat 300  
 aaaataagat tcgataaaat aaagttatta ttatcgctag ttaaacaggt cggcttgtca 360  
 agctaacaag cactttttat 380

<210> 14647  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <210> 14647  
 tcggtattcc atttcgagcg ttgggatata ttacgggact caactgatat tctagtaaaa 60  
 agttattggc ggttgaattt gcttagagct tcggtattcc atttcgagcg ttgggatata 120  
 ttacgggact caatcagaca tcgagtaaa aagtttttgt cgtttgaatt tgcctcagagt 180  
 ttcggtattc caatttcgagc gtctcgatat attacgggac tcaactcagac atccgagtaa 240  
 aaatttaatg tcgttcgaat ttgctcagag ctccaacatt caatttcgag cgtttcgata 300  
 tartaaggga gtaaatcgaa catatgauta gaaacatggt gtgctttgaa ttgctcaga 360

gcttcgggtat tcccatttga gcgttcggat atattacaag actcaatcag acatccgagt 420  
 aaaaagtgtt ggtagttga 439

<211> 14648

<211> 14648

ccaagtgtca gatagagaat acgtcttgtg cttatccatt ctgattgctt cttttctgtc 60  
 agtgcattgat aaaagtggag aatttgaaaa ggaagtgtca actcttcagt ccgagtttga 120  
 taggatatgc tacttggctga agattgctga cccaacagga gaagctgtca agaaaagggg 180  
 gttgaaagta catgaaccca aaccaaaaaa atctgaagta accattacca tcaagaagaa 240  
 accactgtca gaagcacaga atagcagggg gctttgtgtca aaagcagata acaagaatcc 300  
 tctgtgtgaa accttgaaaa tccgcgagac cctgttcaag gaagatggct ctat 364

<210> 14649

<211> 422

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14649

agcttcttag ttccagaaga ttcagntgtg ttgtatcta cctcatgcac tctctaatg 60  
 actatagcat cttttctggc actaaactgc tgggagttgg aagccatctt ctcaattaaa 120  
 tctctggctt cagcaggagt catgtctcca agggctccac cactgacagc atctatcata 180  
 catctctcca tattacggag tcttcataa aaatatgtga gaagaagctg ctccgaaatc 240  
 taatggtgag ggcaacnngc acatagtttt ttaatatctt ccagttatc atataggtct 300  
 tctccattga gttgtctaat acctgagata tcttctctga tggctgtggt cctggaagca 360  
 nggaaatttt tttctaagat tactctcttt anytcaccc agctcgtgat ggaccttga 420  
 gc 482

<210> 14650

<211> 399

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14650

actttgcaaa ggagggnaga tgngttggtt gttgcaagaa tactttgat agacttcaga 60  
gagatgagc cctggtggtt ggtggtggtt ggtggtggtt ggtggtggtt ggtggtggtt 120  
ggtggtggtt ggtggtggtt ggtggtggtt ggtggtggtt ggtggtggtt ggtggtggtt 180  
ggtggtggtt ggtggtggtt ggtggtggtt ggtggtggtt ggtggtggtt ggtggtggtt 240  
ggtggtggtt ggtggtggtt ggtggtggtt ggtggtggtt ggtggtggtt ggtggtggtt 300  
ggtggtggtt ggtggtggtt ggtggtggtt ggtggtggtt ggtggtggtt ggtggtggtt 360  
ggtggtggtt ggtggtggtt ggtggtggtt ggtggtggtt ggtggtggtt ggtggtggtt 399

<213> 14651

<211> 323

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14651

tgaactgaat cctangtctt cgcaataact tattctaata tctactgaat gancannaga 60  
gctaataaac taagtgcaca tttcttttga caatagcttc tcccgaaatga aatgcacagtc 120  
aatttctatg tgccttggtt tctcatgaaa gactggattt gaagcaatat ggagagtggc 180  
ttggttatca caatataact tcatctgccc aatttcacag aatctcaatt ctccaagtag 240  
ttgtttgac cacaataagt cacatgtagc catggccata ggtctatatt cagcctctgc 300  
actggaccgg gcaacaacag ttt 363

<213> 14652

<211> 456

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14652

agctgctggt gggacatctt gactggcttc tatatctgtt attcaccaga gaatctgctt 60  
tctctatagg taagattggg aatgctctta acagaccttt tgcacatgat attcttcarg 120  
cctcttaaga gcagatgttc aaatcttga tgcacatatt tgaactcact tctcttadag 180









gtggacggaa ggggtattctt atgatatatg caccactgct ctcccccaagg ttatcatcat 240  
catcatcacc cggaggttagc atttctgtag gctctccata gctccagtc a 242

<210> 14660

<211> 14660

<212> DNA

<213> unsure at all n locations

<410> 14661

gcttttctcc aggtctcatct tgggtggtgaa gctccttctt ctatggctta ttccttaatg 243  
gatyggeget cctctccact atttctcttt gctctccgtt gcatctccat ggtggaaaat 244  
caccattaaa ggaccccatc gaagctctaa gatccagctt ccataagaagc tcacaaagca 245  
agcttccatc aagccttgaa aacaaaaggt aaaagatact atgggtgaaa ctagccaaat 246  
aaactctaaa agaggtgtga aagataaggt aaaaaaacta attggttaaaa tgcgaagctat 247  
ctaggggggt ttactctatc tactagaatg gccaaaatac aaggcctaga cgaaggagaa 248  
acctattctc atattctaca agataagcga gctcatactt agcccatggg ctcgaaatct 249  
accctaaggc tcatgagaac cctanggcct ntcccttggt ctctagocca atctacttgg 250  
agtc 251

<210> 14661

<211> 439

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14661

tgaigcctct ntgtataact ccttttactt ttgggatctt tccaatatct tctagcatca 252  
agtcgaagaca atgtgagca catggagtc aaaaatattct tgggtctgtg acttctaaaa 253  
ttttacttaa aaagacccaa atcaataaac ttgtatgagt agtgttaaaa ttaaaaagta 254  
taactataaa aaaaaacttc attaagcatg attgaattct cgcaccacaa cacataatta 255  
cttccattgt cgtccaccac ttgaataaca tctttttctc caatctcttc aacaaagcta 256  
tccaaaagct caaagatctt ctgaccagtc tcatgtatt cagaagcctc cgcactcttc 257  
acaaactctc tccccaaga acaattacc aaaaagttaa tcaaaagttct attcttctca 258

tcgcgttcaac catctgaca

439

<210> 14662  
<211> 473  
<212> DNA  
<213> Glycine max

atgctcaacaa agaaagcttga agcaatagttg atcttgaatg gtaattcagc ggcctctatct 60  
ggttgagggtca aaagccttga gcagggaata gatgaataag ctctcagcat ctctgctctc 120  
attctgaccc cttaaagatc tgtttgaaaa tgactgtagt ttctgttaac gttatttata 180  
tgattgttta ttaaaataac aatatacaat tatagagcat agccttatac tgtaccatcc 240  
ttggtgtgat ttgaacagac tgtagcttct agttgctatt gtaacattat gttgttaagac 300  
atgtgatata gacctgtaat catatatata aggaagtgat cctatattat cataggttgg 360  
gttaagtaat ttggtcctgc cgaagaacgg tgcattatga agtaccatct tttccatngg 420  
attggtattat ctcaactntt gaaatcaagt gatagtgatt aatcatgaaa tac 473

<210> 14663  
<211> 435  
<212> DNA  
<213> Glycine max

<400> 14663  
tgtaataaag ataccaatta tcgatacaaa ttctccatat ggttgattta tttaaaaaaaa 60  
aaaaagtcaa aaacaacatg tatggaatag agatatttga accaccaaag taaagaactg 120  
ttacaaataa ggaagaaatg aatagggtta aataggaagc aacataaaat aaaccaaatt 180  
tgagtgggtt aacctatat gctaacctcg ttgtctacct actattattg gttacctgtg 240  
atgaacgtta attcaaaatg taatttataa tattaatata ttatttttga tttttttaat 300  
ttgtgggtgg ttgaataact ttgtgcattt gtcaagtgat taagattctt tgtgttaaaa 360  
ggtattatcg atcaacttct ttatttttaa ctacaaagtt ttacatggac tgtttataga 420  
aaatatttgt tatgt 435

<210> 14664

<211> 369  
 <112> DNA  
 <113> Glycine max

<23> unsure at all n locations  
 <400> 14664

cttctcttctt gctctcttctt tctctcttctt tctctcttctt tctctcttctt  
 tctctcttctt tctctcttctt tctctcttctt tctctcttctt tctctcttctt  
 tctctcttctt tctctcttctt tctctcttctt tctctcttctt tctctcttctt  
 cgaagaacttg gggagtttga gataatgect actaagatga cttttacagt agcagatogc 243  
 tttatcaacca gactctatgg agtgattgag gatgtttctgg ttcaagtcaa acatcttata 300  
 tttctctgag actttgtggg tatggatata gaggaggatc ctogaattcc cataattttg 360  
 ggaagtctct 369

<210> 14665  
 <211> 302  
 <212> DNA  
 <213> Glycine max

<400> 14665  
 agtgaagtct gacgatattc cgaagactat ctttaggacc cgttatgggc actacagta 60  
 tctagtcatg ccccttgggtg cgactaatgc accagggtgtg tatatggact acatgaataa 120  
 agtccttcac ccttactttg atagattcgt ggctgtattc atagatgata ttttgggtata 180  
 ttcaaagact agagaggaac atgaagagca cttgaggatt atgctgctta ccttacgaa 240  
 tctacaactc tatgctaagt agtccaagtg tgagctcttg gttagagaaa gttagtcttc 300  
 ta 302

<210> 14666  
 <211> 451  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14666

gcttctagac atctctctat ctaaaaatgg tctctcttctt ctgcataagc ttgacccagg 60  
 ggtcaccaga cataaatca tctatgtgtt ttgggtcaat ctcttgagaa agctctctct 120

ctagaatttg tccctaggat caccaatgat ctacgaactnt g gatgatgtt tccctggcaa 180  
 aagcttagtt ggttctctga cttcttcaag ttgatctgcc actagtgagt tggacgcaag 240  
 cctatcttta ctggacatag tagcaaaactt gacgatattt tcaattttca tttctgcaaa 300  
 ggaatctatc aattttgaca ttgagtggc aggtttatct tcaattatct tcatatgaat 360

<210> 14667  
 <211> 395  
 <212> DNA  
 <213> Glycine max  
 <23> unsure at all n locations  
 <400> 14667

agctntatct aatgggaatc tggcanaatc tgtctatgag aatgaatcga tggcccttgt 60  
 gctttgtatt cagcaactgga gacattattt attgggcaga gaattttattg tgcacacaga 120  
 tcaataaaagc ttgaagcatt ctttacaaca gagagtttca tctccagatc agcagtgttg 180  
 gttgggcaaaa ctgctangct atcaatttga agttaagtac aagcctgaat tagagaatag 240  
 agccgatgat gctatgtcca gatgtcatgg ttaggtagaa atgaattcta ttattttttt 300  
 tcccttgtgg gctgatagac agaaactttt ggatgaaata actaatgaac cgtacattta 360  
 aaaqttactg agagaagtgt aggagtctcc taatg 395

<210> 14668  
 <211> 405  
 <212> DNA  
 <213> Glycine max  
 <23> unsure at all n locations  
 <400> 14668

gggataatcc ttcatttggc ttgatgaaa gcccctatgga tcaatgcata taacataagg 60  
 tcagtaggag taaaatattt ttccttgttt tatatgtaga tgatatnta cttgcaaacca 120  
 atgatcatgg ttgtttacat gaggtgaaac aatttctctc taagaattnt gacataaagg 180  
 atacgggtga cgcattctat gttactgaca ttaagattaa tagagataga cctcgaggta 240  
 ttttaagttc atcacaggaa acttatatta acaaaaattt agaaagattt cggatgaaag 300

aatgtcagca agtgtcgcgc ccattatgaa nggtgatasa ttttaatttga accaattccc 360  
 acagaatgac ttgttgagga aacatattga aaacattcat tatgc 405

<210> 14669

<211> 317

<212> DNA

<213> Glycine max

<210> 14669

<211> 14669

gagaggggaa agttaaatta attaaatttg gcatggcgag taatgtagat cggggatgtt 40  
 gagangtcca agcaccbaaaa acccttctgtc atactgctat atccaagaaa gatacatgga 120  
 atactccgtg gtgataattt atgaggagca taatctcgca aaccaaggata aacccgacaa 160  
 ccaaatgggt gaaagtgagc ataatttggg gaaacatcat gtaagagctc aaaaggagat 240  
 atactctnta acaaggggag aggttaaccg tttataatat aaacaacaca acaaaaaagca 300  
 tggagccaat acgtagt 317

<210> 14670

<211> 330

<212> DNA

<213> Glycine max

<400> 14670

agcttgaatc ggacatccgt gtgaaaagt atgactcatt taatttcaag agagcttgcg 60  
 ttgttcaatt tggagtgtca ctatatgtga tgcgcataa ttggacattc gagttaaatg 120  
 ttatgaccat ttgaattact caagagcttc cgttgttcaa ttctgagcgt ctgatatgt 180  
 gaattgtctg aatcggacat ccgtgtgaaa agttatgacc atttgtattt ctcaagagct 240  
 tccgatgttc aatttccagc ctctcgacat attatgcgcc cgaatcggac atccgtgtga 300  
 aaaatagac catttgattt ctcaagagct 330

<210> 14671

<211> 410

<212> DNA

<213> Glycine max

<220> unsure at all n locations

<400> 14671



naaggtttta tcattgnggt aagtgaaaag gatgattcct aataagcaag aacgttcagt 60  
 cattccagcc tcccaggtga atggcacata gaagttggcc atagtaaatg ggtaacaggg 120  
 aaaatgtgac attgatcact aaatgggtag tcaacttaatg catatgacaa aaagatacat 180  
 atgtgaatgg ctaaaatgc aaccttcaa atgcagttcc ctatcagca caaaactcca 240  
 atgtgaatgg ctaaaatgc aaccttcaa atgcagttcc ctatcagca caaaactcca 300  
 atgtgaatgg ctaaaatgc aaccttcaa atgcagttcc ctatcagca caaaactcca 360  
 atgtgaatgg ctaaaatgc aaccttcaa atgcagttcc ctatcagca caaaactcca 420  
 atgtgaatgg ctaaaatgc aaccttcaa atgcagttcc ctatcagca caaaactcca 480

<210> 14672  
 <211> 255  
 <212> DNA  
 <213> Glycine max  
 <214> unsure at all n locations  
 <400> 14672

ctatccctt gtacatacaa ccaatcaatg agattggtct gtaatcatca aatgactgag 60  
 ggtgtattac ttgggaatt agagccagaa aggaagcatt actacctta nggaagctgc 120  
 catgcacatg gaactcatcc acaaattctt tgaagtcagg ttccaccact cccagaatt 180  
 cttaataaaa actgaaatta agaccatcac gccaggaca ttgtcncac cacagcttgc 240  
 ttgatctcat gatct 255

<210> 14673  
 <211> 381  
 <212> DNA  
 <213> Glycine max  
 <214> unsure at all n locations  
 <400> 14673

anngtttta ctgaattgca acgttccaat tgttttttaa atgggtgtaat caattacaat 60  
 atattggtaa tcgattacca ggttatctga acattgaact tcaaattcaa ttgtgaagag 120  
 tcacatcttt tcataaaatg ctttgtgtaa tcgattacat nggtttggta atcgattacc 180  
 agtgacaaaag ttggaataaa aatcatgaga tgaactctt ccaatgggtt tcaagttttt 240  
 ctcgaggtta taactcttcc aatggttttc ttgaccagac atgaagagtc taaaaagca 300  
 agaccttgac ttgatttca ataaactttt aacaattctt tagaacaact ttgagaaaac 360

cttttgcatact tatttcttctt c

381

<210> 14674  
<211> 403  
<212> DNA  
<213> Glycine max

ttttaggtt gatttatttt gattttttat gttttt tttttaggttt agtcttgaacaa 60  
gagggatcat gatgcaatcc tccctaggaa gggaccaatc actagaacaa tgagcaagag 120  
gtttcaagaa gattgggcta gagctgctga agaagggcct anggtttctca tjaaccttag 180  
gttagatttc tgagcccaag ggcacaaggtt gggttcaatt atctttgtac atattagaact 240  
angatgcat tatatttggc ccttgtatat agggctccat attgtaggta gggtaacctt 300  
gaaatatagg atttttcagc ccttgtatct ttggggcaact agaactagtt ttatattagg 360  
ggtagttttg taatttcaca tgcactaagt ggatattnga tat 403

<210> 14675  
<211> 401  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14675

tcatatatgc aatttgaaga tattntagca aattttcaga cagccaaatt agcccaatat 60  
tgagtactca agatgcatat ataggatgaa gtttgttggg tggattactt agcttttgtg 120  
ctgaataatt aattaagttc atgttaaaca agtggcctca ataaacttaa aagggagggt 180  
gaattaagtt taaaaaattt ctcttaacaa catitttaatt ctctctttta atgattatg 240  
cagaactaat atgcagaana gaagtaacga acaatttact tgatgcttct ttaaatatgc 300  
aaagtaaat taaactgcaa taaattaaaa gagtttatgg aagagagagt tgcacactca 360  
gttttatatt gttttgacca cgttctatgc ctacatccag t 401

<210> 14676  
<211> 440  
<212> DNA  
<213> Glycine max





acacaaggac aatccttccct ttgtgttttag agatccttta caacaagaga ctcacagtct 420  
 cttactccct tagagaaatga gaagaagaag aagaac 456

<210> 14681

<211> 199

<212> DNA

<213> Glycine max

tactcaatat tgcacatctg aaggcatcat tcatgagttc ctgcagaca ttacaccaca  
 acaaaatggc atagttgaaa ggaaaaacag gatttttgca gaggttgcta gggtcattgt 120  
 tcatccaaa gaatttccct ataattctctg gggtgagcc atgaacacag catgctacat 150  
 ccacacaga gtacacatt 199

<210> 14682

<211> 438

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14682

agctntgagc caattcaaac gacaataact gtttctcgg atgtcagtta gggtcocgta 60  
 atatatogag acgtctgaaa ttgaatgtta aacctatgag ccaattcaaa cgacgatgac 120  
 tcttlaactc gatgtccgat tgagtcocgt gatatttcca gacgtctgaa attgaatgtt 180  
 gaagctctga gccatttcta acgacaataa tcatttacta ggatgtttga atgagtcocg 240  
 taatatatct tgacgtctga agatgaatgt ttaagctctg agccaattca aacgacatta 300  
 actttttaact cggatgtctg attaaggccc ataatatatt gagacgtctc aaatngaattg 360  
 ttgaagctct gagccaattc aaacgacatt aactttttac tcggatgatt gattgagtac 420  
 cggaatataa cgagactc 438

<210> 14683

<211> 231

<212> DNA

<213> Glycine max

<400> 14683

aactttatgg ccttaaaaca gcaccgagag ctgtctaca caaaatagag gctatttta 60

ttcaaaaatgg atttggtaga tgcctttgtg aacatacatt gtttacaaaa tcacaagagg 110  
 gagggaaaca ttttaattgta agtctctatg togatgactt actatatact ggaaaagatg 180  
 gaagtatgtg tgatgagttt agaagatcca tgatgacaaa cattgatatg to 212

<213> Glycine max

<223> unsure at all n locations  
 <400> 14684

agentttgaa ccttgaattg aaatgactgc tcatataaag gcttgattaa acttccatct 40  
 tccaacgagg acagtaacac cctaggagga caaccaaggg aatcatgaat atcaacaaaa 110  
 ttctgcatat gatgatcaag gaccacaatg tgcctccctt tgetgtgogt aagtctgaca 180  
 gggacttgaa gtggttgact tcatcaaca aaaagcttgg aacaatacaa attggactcc 240  
 agaggaccat ctaagggtccc agtaaaatat attagacctg tagcttcatt cacacggga 310  
 atttgctcaa ccctccattc accttcagtg atgggtccca aacaagtccc atttgcata 360  
 tgaagataaa gatgtctaaa tcttggttcc tcaatagccc agataaatcc acccgaa 417

<210> 14685  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14685

agettaagca naaacattat atggttntnt gtctgttggg ttctactcag tgggatagtt 60  
 ttctgttgat tgattgcgtt tgaaatgggt ctcttgaga ttctctcatg tttttttttt 120  
 atgttttttt ggatttcatt atatgtgtca tgaacttgc ttaatgttct ttatctattt 180  
 atttatagat tcattttttt ttcttaaaat gtcaatttta tagacatttt gtaggagatt 240  
 ctgtaattaa gagctctttt aatgaaagta catatgggta attcactatg ctgagtttga 300  
 tttttaagca tgettagata ccttccatgg agtcacatat taatggagtt ggttccctat 360  
 cagaggtgtg tatctagctt aattgggttg tggagaagta aggagtggtt atctagctga 420  
 atagaatggc acaagaactt ctt 443



tgaagctttg atgtattaat ataacggggg attgtgttaa ttatttatat atgcatacca 60  
 atattacaa tacatctgtt ttcttataaa ttttaattaat gtttttttat gcaatgatat 120  
 gacataata tttatctagg gatatatata tatatatata taaagnatta catggtattg 180  
 . . . . .  
 ttaatttata gatatgagat atggtgttga atgagtggtt tatataact tggagtata 240  
 ttacttatct tgtgaggtat gagttataca ataaccggac cagctgttac ctcgagaaat 420  
 atttatgca cagttgttaa ggaaaaatgt 480

<110> 14689  
 <111> 416  
 <112> DNA  
 <113> Glycine max  
 <123> unsure at all n locations  
 <400> 14689

agcttgttcc attataaate tgggtgggat attatcatct ggctgggtgcg agtttttcan 60  
 aaatogatgt totagtaaaa ctgcagctgt tggccgctct gctggatttc ttttaaagca 120  
 gcacotcaag aaatctttac cctcaaatga aagtgtttca ggtataggag gggctctcctt 180  
 cataacotta aacagagctg cagcctgcac aattagaaaa gaagtttatt tagcaagata 240  
 aaaaaaaagg acccgtatac agatagcacc tctgcctaata ccacaagttg caaacagaaa 300  
 aaagttggct aaaagatgcc ttagctgggt gttaaattga ggtttgcaa aataagtaaa 360  
 aagttgacac attatcttac attaccaaac ttcagaatct catattctca tagaag 416

<110> 14690  
 <111> 363  
 <112> DNA  
 <113> Glycine max  
 <123> unsure at all n locations  
 <400> 14690

agcttgcctt gccctttgat atatttgagg gactcatgtg taactatgaa tgacaaatto 60  
 cttgggataa aggtagtgtt gccatgtttt caaagccctt actaaggcat acaactcctt 120  
 atcataagtt gaatagttaa ggttaggacc acttaacttt taactaaaat aagcaattgg 180



atggccttct tgcatacaac cagccccaat cccaacattt gaagcatcac actcaatttc 240  
 aaaagatttt tgaaagtttg gcaacgcaag tatggggaca ttagttagct ttgcttaag 300  
 aacattgaaa gcttcttctt gttctctctc ccatttgaaa ccaacatttt tcttgagcac 360

14691

<210> 14691  
 <211> 466  
 <212> DNA  
 <213> Glycine max

<400> 14691

ttagtgccac ctgcctgcct gcaagctgac accaagtaat tctttctctg ttttatgtcc 60  
 aaagtatatt taagttggca taagaatata ccacttggat tcttggcaac ttctacacca 120  
 agaaaatact ccagggtccc caaatctctc atgtgaaagc acttgcctgag acatacttta 180  
 aatttttggg ttgtagtggg gtcattccca cacacgatca aatcattcac atacacccaa 240  
 actaccagtt gcactccatg attaagaaga gtaaagagcg agtgggcaga ggatgattgt 300  
 tgaaacccaa aattcgtgaa ggcaaatgat agtttggcaa accaacatcg aggggcttgc 360  
 tccaagccat acaatgattt ggcgaacttg caaactaatc ctggttgaga tgtgcgaaag 420  
 cctggggggc acttcatgta aacatcttca tgaagatcac catgga 466

<210> 14692  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14692

agctnggtct taattatata aagatagatg ttgtccaaa acattgcatg ttgtatttgg 60  
 gagatgatga aaaaagtctg gatgcttcta agcattgtgg tacatctaga tggaaaccca 120  
 accaagaaga gaaaatagct gcaaaagttt tacgttaact tccatcgaaa ccaagattgc 180  
 aaagattggt cacatgtcgt aagaatgcaa aagatatgag atggcatggt ttggaagaca 240  
 ataaagatgy gttgttaagg cactcaagag atggagaggg atggaagaca ttgatttcaa 300  
 tccatcttga gttttcttca gatctctgaa atgttctgct aggccttctt actgatgggt 360

ttaatectgc taggaccttg agttctacct atagcatctg gccagtttcc ttaattccat 420  
 ataattcttcc accttggaata tgtatg 446

<210> 14693  
 <211> 11  
 <212> DNA

<223> unsure at all n locations  
 <400> 14694

agtttattat gctagtttat tcacaactca ttatattcta tttttatgta attatagcag 60  
 aaactaagac ttgagtgcga caaaaaaagg acaaaaaaagg ataaagggtt actgggtttt 120  
 ttttataaaa tactattata attataatto tgagtgggtt tttattattt tatatataaa 180  
 aaagncgaat tgtcattggt tatactacta tttagtaagg ttttacaaga aaaggaaggg 240  
 ggaggggggaa ttttcatttt aataaacatt tgatatatga ttatataaaa aatataaat 300  
 gttattttta taaaaattta atgctctata ttttggttta tatatatcat ataatectat 360  
 gactctataa acaaatatat aaaatatgct tcattccttt cctttataag aacataactt 420  
 ctaaaatatat cttttttatt ta 442

<210> 14694  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14694

agctngcaat gacgcactca cttcttcatt ttattatata caaagatgag tgtctcttaa 60  
 tcttaaatat tctgaatttg tttattagtt agaaataact caatttgaac aaaatgaaca 120  
 ttgtctcttg aatttatatga aggtctctgc tgggaatctt tctgagttct tgattttatg 180  
 cggcataaat aaaaactaat atgatgtgct ttacggggca gggaaaaaaa ggaaaagtgt 240  
 ttaaatataa attactttat tttctaaaat ttaaatatag tgattatata atctttttat 300  
 attgttatct aatcatagat ttattaaaat atgtccaatt tctctctctt atattatrat 360  
 ttgtgtatgc tttcattcta atatatcttt ttgtgtctct aattttctct tccctctctt 420  
 attcttcttt tctttatct 439

<210> 14695  
 <211> 263  
 <212> DNA  
 <213> Glycine max

<220> unsure at all n locations  
 <400> 14695

ttggaanac aagcataatg caatctcttt ccaacccatg ttgcgcacag ctgtgtgcgc 120  
 gacaaagtto ccatcacag acatctggct ggtcggatgc gccacccgto gacaaaacct 180  
 ctctccctto gtgaaccact gcccgtagat ctccacgtcc agcaccacca ccggcacgcg 240  
 gaacacccac cacagaacca agt 263

<210> 14696  
 <211> 271  
 <212> DNA  
 <213> Glycine max

<220> unsure at all n locations  
 <400> 14696

ttaattctct agtggtgaaa gaaacctctg tctcacacta tcacaacaaa ataatttaca 60  
 ttttaagcaca agaagagaat ttggaatggc acatagtatc tntggccaga ctcgtagtac 120  
 ctgtgggtgta atctatagaa ataaaacaac ataagtcagg ggatacacia cttaaccttt 180  
 acaangttat tgataatcac aataaaatta catgatatat ttaagagtat tactacctta 240  
 gcaaaagtgt tttaaactacc aatgtaaagc c 271

<210> 14697  
 <211> 256  
 <212> DNA  
 <213> Glycine max

<220> unsure at all n locations  
 <400> 14697

gtcatatata ctgactcttc aagaatcccc tttagaaagg cattgttcat atcagctga 60  
 tacaactccc accaatgtga gagaagcagg gtgagattag tgcaaatgtt cacaagcttg 120  
 accacggngg ataatgtctc atgaaaatcg aaaccatgga ctgtatggaa acccttagct 180  
 aacaaccttg ctctgaacct tgtgataaag ccatcaaat tttcttagac ttgaaaaaca 240

cacttacatc taatag

256

<210> 14698

<211> 342

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14698

taactaatg tctaaattnt atgggattaa gatgggcatt gacaaatccc tattttatga 60  
tataacacaa ttgcctagtg aatgtgtgdc ttttgagggg gcaetgathg atgattgaaa 120  
atcaatatt tontgtcatg atgcgcgcgc gttgggttgc abcaaccaag cggatatgac 180  
tgaaggatt ctgcacatat cattggcttt ngaaagcgcg atcctacatt accttattgt 240  
tccatatttg ctgcctagat ctccagatct tgcctcaggt totgaagaag atctcattgt 300  
catgggggdc tctcataaac gttacaaatt gattgggcac ac 342

<210> 14699

<211> 349

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14699

gcattgcaagc ttttgcagc tgagatcatt tattctatct cctatatcca atgggtgagt 60  
cgggtgcagg tagtcccgaa naagactggc ctccacagtga tcagaaatga gaaggaggag 120  
ctgattccta ctgggttgca gaacagttgg agagtctgca ttgactatag gaggtgaac 180  
caggttacca aaaaggacca ttttccctg ccattcattg accagatgct tgaacgcctg 240  
gcaggtaaat cccactactg tttccttgat ggtttttctg gatatatgca aattactatt 300  
gttcttgagg atcaggaaaa gaccacattc acctgcccct tcgacactt 349

<210> 14700

<211> 306

<212> DNA

<213> Glycine max

<400> 14700

ctctaatgt gtcactcttc aatagattat ccgatgatcc gctggggata tgagcatccc 60

aagatgttat atggcgttga tatgcaccat tactgtgggtt cttctcttga cgcggttaaga 120  
 acggggcaat ttcaactgct aaactcttca tagaatccac aacatcctgg atgggtaatt 180  
 cactgagcct ttcaaccag atttccagcgg tggcatatat tggaggacca taactcttta 240  
 14701 14702 14703 14704 14705 14706 14707 14708 14709 14710

<210> 14701  
 <211> 336  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14701

cgaacttgat gcattgggta acttggtaac ccagctgggc ttgaatcana aatctgtacc 60  
 tctcgcaagg gtttgtgggt tgtgctcttc tctgaccac catacagacc ttgccccttc 120  
 catgcagcaa cctggagcaa tgaacagcc tgaagcttat gctgtaaata ttracaatag 180  
 acctctcaa cctcagcagc aaaattaacc acagcagaac aattatgacc ttctcagcaa 240  
 cagatacaac cctggatgga ggaatcccc taatcttaga tggctccagcc cttagcaaca 300  
 acaacagcag cctgctcctt ccttcaaaaa tctgctggc ccaagcagac catacattcc 360  
 tccaccaatc caacaacaac aacaac 386

<210> 14702  
 <211> 272  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14702

ctcgggaaat ctcttcagct ccactatgt ngcttataag caccatctcg aaatagtctc 60  
 ttccattgat ggtaaatctg atgctccac ttcttatgca cccaactctg cataatataa 120  
 atgttactag ttgcccacat tttttttaa ccacatgtat tctttactag aaacaaaata 180  
 aaaggttaag acatattgga attgacataa cataaagata cttacttctt gtacaaaatt 240  
 ggtacaatgc cagctttgta cttgctatt gt 272

<210> 14703  
 <211> 275  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

atattganaa taatttggtat tgtgggttccc catatacaaac caattacattg tggacttttg 180  
 agaccaatga agttcttctt cagccaagac ttgttcatat totatccaag tcttcttata 240  
 ttatgaaget gactacaaat cagacatgcc actac 275

<210> 14704  
 <211> 335  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14704

ccattgctgt tctgaatgat ctaagtccat ggtattcttg gaacaaagcg ntctctctga 60  
 aaccaggagc tctttttccc catgttcccg cctctgagtg ttccttcaag tactttttca 120  
 gcaratcaga tgaaacctga agaatacaat taatataaga agattaataa gatgtacact 180  
 ataaacaatt cttctactct tctactatat ataagttagt atgttaatta cttacttgat 240  
 tttctgccaa tcccatttgt ataactnccg aggagtttgt taattcatca taagggttct 300  
 cgtcatango tctccaccca gcaaaatagg gggag 335

<210> 14705  
 <211> 342  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14705

gtccnetaat ctctctctca tgcggggtc catcanaatg gtgctegaat tgaatgccc 60  
 gtgaataaca aacctgtccc aacctgtgtg aaggtagtta agccctctg ccacgtcgac 120  
 agggatacga cggcgtngct cccacccacg aagcttctcc gaattataga anacccactt 180

gttgagagctc ccgttgggga tgaatcata aaccaacata agctcgccc cttctgcac 240  
 caccctctca ttggaacaa gttcttctgc tgaagctcc ccatgcttga aatctcggc 300  
 atgaattccc ggaaccttg cttcgaatcg tggctcagc ac 342

<210> 14706  
 <211> 376  
 <212> DNA  
 <213> Glycine max

tttgagggcg tctaatatt acgggactca atcttcacac ccagtaaaac gttattgttg 60  
 ttggaatggt ccagagcttc aacattcaat ctcagagctc ccatatatg acaggactca 120  
 atcagacac ccagtaaaaa gttattgtcg ttggaatgg ctcagagctt caacattcaa 180  
 ctcagagctc ctcatatat gacaggactc aatcacacat ccagaaaaac aatattggcg 240  
 ttggaatctg ctcagaggtt caacattcaa ttttgagctg ctcgtatat taacggactc 300  
 aatgagacat ccagtaaaaa agatattgtc gctgaattg gtcagagct tcaacattca 360  
 tctcagagcg ctcgatata tgacgggact caatcagaca tccagtaaa aagttatt 418

<210> 14707  
 <211> 376  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14707

atatatcgag acgctcngaa atgaatgttg aagctctgaa ccaactcaca ccacaataac 60  
 tttttactcg gatgtctgat tgaggcccg aatatatcga gacgctcga aatgaatggt 120  
 gaagctctga gccaattcaa acgacaataa ctttntactc gcatgtctga ttgaggcccg 180  
 taatatatcg agacgctcga aatgaatgt ggaagctctg agccaattca aacgacaata 240  
 acttttact cggatgtctg aatgacgccc gtaatatat gagacgctcg aatngaattg 300  
 tngaagctct gagccaattc aaacgacaat aactctctac tcggatgtct gattgagccc 360  
 cgtaatatat ccagac 376

<210> 14708  
 <211> 476

```
<125>      unsure at all n locations
<400>      14708
```

240  
 280  
 320  
 360  
 400  
 440  
 480

GATGCTTGAG TTAGAGCAAC CATCTGAAA TATTAATATA TTATTTAAAC TAGTTTTGTA 240  
 TGTGTAAAG TACAGTTTTT TAAAAATATT ATATAAGAAT TATTTATGAT ATNAGATTGA 300  
 TGGATAAAAA ATAATATAAT GTTATATTGG TAAAATATGA CCAACATATN TAAAAAAAAC 360  
 ATAGCAAGTT TAATTTTTCA NAANAGTATC TAATAGATGA ACAATCCTA AAAAAATTGA 420  
 GACCATTTCTC TCACCTCGAT ATAAAAATAAT TATATAAGAA TTAATATATT TATATT • 476

```
<J11>      14709
<J12>      300
<J13>      DNA
<J13>      Glycine max
```

```
<223>      unsure at all n locations
<400>      14709
```

gggcacatgca agttgaaagc cttggaggyaa agaggtatgc ctatgttgtt ggggatgatn 60  
 tctccagaat tacctgcgta aactttatca gagagaaatc agacaccttt gaagtattca 120  
 aagagttgag tctaagaactt caaagagaga aagactgtgt catcaagaga atcatgagtg 180  
 acccatggca gagaatttga aaacagcagg ttcaactgaat tctgcacatc tgaaggcate 240  
 actcatgagt tctctgcagc cattacacca caacagaatg ggatagttga gaggaaaaaac 300

<10>	14710
<11>	407
<12>	DNA
<13>	Glycine max

```
<23>      unsure at all n locations
<400>      14710
```

gaccttaaga ggggtgcaag tggcaggctc ttgaacactg ctgcttatcg ccactttgga 60  
acagatgacc cagaacttcac atggcgaggtg gtcaagccctc taaagtggga ataattgccat 120



gaataaagct gattgccaaag aaactatgtg tgatcttata tgccttccata cctaagatcc 180  
 gngatatgat ttgccttagc ttttgtatct ttataaataa ataaaaacata tatatgtoga 240  
 gttgagtata tgaacataca aaggaagctg catagcagca tcaatgtaot attggaagtt 300  
 atcttctat atctctctctg tctctctctg tctctctctg tctctctctg tctctctctg

<210> 14711  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14711

attctgtgggt ctctgagtat ataggatgga ccacttccaa caaaacaatt gatgcaatcc 60  
 taccctccaa gatcatcgga tagaagactc caagaagatt gtgccaaga tgcagagaa 120  
 ggccttaggg ttctcatgag ccttagggta gaattctaa cacatgggct aaggttgggt 180  
 ccaatttata ttgtacatat tagactagga tgcattata tttggctctt gtatataggg 240  
 ctccatattg taggtagggt atctagaaa tataggatat ctccagccct gtattttacg 300  
 gcaactagac taggtttcgt attatgggta gtnttgtaat tccatgcac taagcggata 360  
 ttg 364

<210> 14712  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14712

atcatctgca ggcctgctgc cgcctgcaag ctctgatgca acatctggag aggttaatga 60  
 aactctctaga tgatgcgctc catgagaggt tggatcaaat ggagaataga gatcataatg 120  
 aagaagaaaag gaggagaaga gggatgatg gtgttctag acaaaaacga attgatggta 180  
 ttaaaatcaa cttctctccc tttaaaagaa agaatgctc ggaggcctac ttgcagtggg 240  
 agatgaaaat agagcatggt ttctcatgca acaactatga ggaggaccaa aaggtgaagc 300  
 ttgttgcac ggagttttcc gactatgctc ttgtgtgggt gaacaagcta caaaagaga 360

gagcaagaaa tgaagagcca atgggttgata catggacgga gatgaaaaag atcatg 416

<210> 14713  
 <211> 394  
 <212> DNA  
 <213> Glycine max

agctatctat tcanacccat atatccaatt atgctcttta atttatgaag attatgggat 60  
 taagatgggtc attgaaccaat cccatttcta tgatttaacc caattgcbaa gtgaagatgt 120  
 cccatttgaa ggtacattga ttgatgattg gaagtttgat tttctgtgtc atgatgcccg 180  
 cgggttgggtc tgcaccaacc aagcggatat gacgggaatg cttcttgccc gctcattggc 240  
 ttctgaaagc tgcatacttc attatgtaat tgttcgcata ttgctttcaa gatcttcaaa 300  
 ccttgccacag gttcttgaag aagatcttat tgttatgtgg gcttatcata aacgcctaca 360  
 aattgagtgg cccatcttgc agatctcgat gcac 394

<210> 14714  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14714

tatctcttct aacataatct ttctttctcg acccatactg accagtcata tcacaaccaa 60  
 ttatcacaaa tgaagtcctt ctctccatac cagtgtttgt gcttgacctc ataataccg 120  
 ccactgcaaa acatcatctc aggtagcaaa catcttgatg caatctccc taggaaggga 180  
 ccagtcacta gagctatgag caaganggt tcaagaagat ngtgctagag tagctgaaga 240  
 aggccttang gttctcatga acattanggt agattttctaa gcccatgggc caaggggtggg 300  
 tccaattatc tntgtacata ttagactang atgtcattat atntggctct tgtatttagg 360  
 gctccataat 370

<210> 14715  
 <211> 455  
 <212> DNA  
 <213> Glycine max



cataactgcg atttttcttt tcaatttgag ccttcacttg ctcatgcagc ttcttcacat 120  
 actcagctnt agcctgtgcy tccttatgct taaacatagt aatgttaggc ataggcaaca 180  
 aatcaagagg agtcanagga ttaaattcat acactatctc aaatggtgaa caattagttg 240

<210> 1471  
 <211> 472  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14713

agcintacag caaatgcac tcactccaa attcttgaag gatatgttaa caaggaaaca 60  
 taagtaacatt caccaggaaa acattgttgt ggaaggaaat tctagcactg tgattcaaaa 120  
 gatccttcca gctaagcata aagacctgn gagtgcact attccttgtt taattggaga 180  
 agtcattgtg ggaaaggctc ttattgactt aggagccagt ataaatttaa tgcactctc 240  
 catgtgtaga aggttaggag agttggagat aatgccact aaaatgactn tacaactggc 300  
 tgaactgctct attaccagac catatggagt aattaaagat gtgctggta gagtgaaaca 360  
 ttttatcttc cggggagact taatggtaat ggatatctgt gaagatactg acattcctat 420  
 aatattggga aggcattca tgttaactgc tagnttgcct agtgacatgg gt 472

<210> 14719  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14719

agctngaagg canactggat gcattggta acctgttaac ccagctggcc ttgaatcaga 60  
 aatctgact tgcacaagg gtttgtggtt tctctctc tctgaccac catanagacc 120  
 ttggccttc catgcagcaa cctggagcaa ttgagcagcc gaaagcttat gctgcttata 180  
 ttacataaa aaactctca cctcagccag caaatcaacc acagcagaa aattatgacc 240  
 tcttcagcaa cagatataac cctgtatgga ggaatcacc taacctcaca tggctcagcc 300

ctcagcaaca acaacagcag cctgctcctt ccttcgaaaa tgctgggtggc ccaagcagac 360  
 catatcttcc tncaccaate caacaacagc aacaaccccc 400

<210> 14720  
 <211> 463  
 <212> DNA  
 <213> Glycine max

<400> 14720  
 catttgattg acaaacatga atgagagagt tctcggagcg acccatagag gaactgacat 60  
 agagctcagc ataggtgaag ggagtttatt ataatttacy ggctttgata ccatagttag 120  
 tgatgtagct ccatgttgag cttgtaggcc ttgaatcttc ttcataata gactcctttg 180  
 cttcttgaag gtcaatggca ggggaatgga gacggaaaaa gaccattgga gatgccactt 240  
 caagaaaata tgagttaaca caagctcccc ccataagaag ctatgataca 280

<210> 14721  
 <211> 463  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14721

gcacattggt ctcagttata ccacatgctt ataactatag tatttctcta tatatnntcc 60  
 aactggacca atgagnttcc atntntntct ttatcttcat attaataatt tgcaggtgga 120  
 gaagattgag gacagtatta aattcataaa ttctagacct aaacctcttg ccttttatgt 180  
 ttccaccana aaccaaacac tgcagagaag aatgatctct ganacatcat ctggcagtgt 240  
 gactatcaac gacgcaattc tacaagtaat accaataccc tatcaagcat taatattcca 300  
 ctcttaattct aatctttttg catattttat ttattaattc ctcagactta gtgcataata 360  
 ttgtgtttaa atntgtgcag tatgcagtty atactgttcc atttggagga agtggggaaa 420  
 gtgggttttg catgtacctt gggaaattct cctttgacac att 463

<210> 14722  
 <211> 460  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<430> 14722

tctcttgatc tatgacttct tatgggggng agcttggtct tgactcatc tctcttgaa 60  
gaggatctc caatcacctt tctcattct gcattctgtt ggcattgatt tccaagaagg 120  
tcaattcaat tcaattccat gttcttcatt gttcttcatt tgcattccat tcaattgatt 180  
gttggttggg gctatttana gtagattcaa aaaaataaac ctattaaac tcaattctgc 240  
acttgntctt gcatttctat gggtaaaaat tcatagatct actcttgaat catgtttttg 300  
tggttgattt aggttctatc atctttcagt cataattctc 360

<210> 14723  
<211> 311  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14723

ctaccttttg ccttntatg ttgataaca taagggaatt gctctagaaa ttccaccac 60  
ttcacatgcc ttttgtttaag ctggccttgc ccttgatat atttgaggga ctcatggctg 120  
ctatgaatga caaatctctt gggataaagg tagtggtgac atgttttcaa agcccgctact 180  
aaggcataca actccttctc ataagttgaa tagttaaggg taggaccact caacttttca 240  
ctaaaataag caattggatg gtcttcttgc aacaacacag ccccaatccc gacatttgaa 300  
gcacacact t 311

<210> 14724  
<211> 347  
<212> DNA  
<213> Glycine max

<400> 14724

aattctgcac tgttgcaata gcttggtggtc tatgttctct tgcagatcac cacaagaat 60  
cttggttctc tgtgcagcaa tctggagctc atcagcaacc tgaagcttat gctgcaaaac 120  
tttataatag accctctcag cagcataacc aacaacagca gaataattat gatctttcaa 180

gcaaacacata caatccagct tggagaaatc atccaaatct gagatggaca agtccctccac 240  
aacaacaaca gcatgttctt tcttttcaga atgctatttg tocaagcaag ctgtatgttc 300  
ctcctccaat acaacaacaa cagtcacaa aaagacaaca agcaact 347

<400> 14725

cttctgagaa ctccatctgg atcaaacgac caatcatatc agtctgttta tgaggaaact 60  
gatgaagaag ggttgttggg gtttccctct cggatcact cctaacgtta gctgcttcag 120  
cttggaggac caatataaca gaattatgac ctctgttctt gctgtattcg gacgagctgc 180  
gctatggatg atcagtgatt tgcaggaata tctgggcaag ggtgaacaag gaaatgtatg 240  
tgccgaattt caggaagget ttgagcatt tctgcataga tgcgggtggg aagtcagttg 300  
tcgaagccat agaggaaagt ctccagctgc agaagaaaga cggcctccag gatggcaata 360  
tacagatttg gcaatacttc atctctctct g 391

<210> 14726

<211> 396

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14726

ntgagcaaat tcaaacgaca ataactnttg actcggatgt cccattgtgt cccgtaggat 60  
atcgagaggg tcgttaattga naacggaagc tcggataaaa atcaaacgac aataagtctt 120  
aactcagatg tcttattgat cctgtaata tatcgagaca ctcgaaattg aaaacggaag 180  
gtctaagaaa agtcaaacga caataacttt taactcggat gtctgattga gtcccgtaat 240  
atctcgagac gctcgttaatt gaaaactgaa gctctgagca aattcaaacg acaataactt 300  
ttgaatcgga tgttcgattg tgtctcatag aatctcgaga cactcgtaat tgaaaacgga 360  
agttctgaga taaatcanac gacaataagt tttaac 396

<210> 14727

<211> 375

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14727  
 agtctatgac agtctcatgg tctnttctgg actacatgct gcatagatng ggctttttgct 60  
 ataaatggag aaagtggatt tcagcttgct ttcactcagc aacaatttgc atccttatta 120  
 atggcagccc tacaagggga gttacccctt ctagaggctt gagacaaggg gaccccttag 180  
 ctcccttact ctntaacata gttggggaag gcatcacagg ccttatgagg gaagcagtec 240  
 ggaagaatct ctatagcagc tacaaggttg gtatgaaaaa tgagcccaca aacattctgc 300  
 agtatgcaga tgatactgtt ttngtgggtg aggcttcatg ggacaatgct ttggtgttga 360  
 aggcctatgct aagaggctat gagctggtct cgggcttgaa gaataactat gctaagaagt 420  
 caattgggtg tata 434

<210> 14728  
 <211> 434  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14728  
 cttatgacac agtctcatgg tctnttctgg actacatgct gcatagatng ggctttttgct 60  
 ataaatggag aaagtggatt tcagcttgct ttcactcagc aacaatttgc atccttatta 120  
 atggcagccc tacaagggga gttacccctt ctagaggctt gagacaaggg gaccccttag 180  
 ctcccttact ctntaacata gttggggaag gcatcacagg ccttatgagg gaagcagtec 240  
 ggaagaatct ctatagcagc tacaaggttg gtatgaaaaa tgagcccaca aacattctgc 300  
 agtatgcaga tgatactgtt ttngtgggtg aggcttcatg ggacaatgct ttggtgttga 360  
 aggcctatgct aagaggctat gagctggtct cgggcttgaa gaataactat gctaagaagt 420  
 caattgggtg tata 434

<210> 14729  
 <211> 439  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14729



ettgaactgcy tgcattgcagc ettcctttac attctaaagga ctcttcattt ccaagatggc 60  
 ttggcattta tccagttggg gtgtatccct tgatgagta gcatgaacca taaaactttt 120  
 ctctttctac ccgaagaca cacttttcag ggtccaact catgttatac ttcttgagct 180  
 tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt  
 tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt  
 tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt  
 ttgttggtat cgataataaa tgttgtcttc ttctcattga tagcgtccat ttctatctaa 420  
 ttgtagctgg aatatgcat 489

<210> 14730  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14730

atgctttaaa tgaacattca ggggaaactt ttggtcaacc gaaactggng aataaatcac 60  
 tcatgggtga taaaaactca cacaggtaag tggtttaacc ttaatctaaa ccataagctgc 120  
 accatgaactt tatntgcac atgatttccct atcgaaacca aagattacac gcgcgatcac 180  
 ggatcaatag gattttctca agggtgatgt ttttggagag gaagctgggt gttttggtct 240  
 ttctctcttt gtttaactgg ggccgggacat tgccagtcca gagcgacctt gaatggcaat 300  
 cccaaaggaa gaaccacttc aaaatgggtt ttccctttgc cggcgggtcat ttaccacgcc 360  
 gaanatttat ctgggtccga gatctttctgt tctcttttct gggttccctt attgatcgag 420  
 aattattctg ttttctccg a 441

<210> 14731  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14731

tcttttagta gggaaatctat ccttceraat atttatccaa acccagtcac tcttattaag 60  
 aactagctct ttcttctctc ttttgccttt agttgaatac acctttggtt ggttctctat 120



gagcttctag tctcaattgt gagcgtctcg atatatcacc cgattcaate ggacatccga 420  
gt 432

<310> 14734  
<311> 479

<312> 14734

atgatgatat aattaaactt tatcaataat atatatataa caatgataac aacatttgat 40  
tattcaagtt aattcaattgt atctataacc tctctctaaac aacctaaaaa tttattttatt 110  
ttattaatta aagttaaaaa tatcaattta agttatttaa ttaaaggacc acagctaggc 121  
gtgattttta aaagaaaaaa aatgtataga tgttttaggt catgtattta tatattagca 340  
tttgtgtaat cttttttaag tacaataata atttttacaa aaataaatat ttttgtagtt 370  
aaattgtcaa ttcataatta aggacaatat aattgaaaaa ttatatacct aaaatcaatt 400  
taaaaaatgt atgaattatt ccgacaagaa aatattcaaa atattttcac ttctaaaggt 420  
gagtacatat acactatatt ctaaatatct cac 433

<310> 14735  
<311> 479  
<312> DNA  
<313> Glycine max

<323> unsure at all n locations  
<400> 14735

gagatcctcc nctcgacaac attattgggtg atatctttat tgngrtaacaa cttagacattc 60  
tcttagagat ttatgcaaca atatggctcc tgtatctatg attgaacctt anaatataaa 111  
agaagccata gtagatgata actggatcat tggcatgcaa gaagaactaa accaatttga 180  
aagaadaaat gtgtnggaaa tagtagaaaa acctgaaaat tctctgtta tagggacaaa 240  
atgggttttt agaaataaat tagatgaaca tgytataatt attagaaata aagccaggtt 310  
agcagcaaaa ggggtataatc aagaagaagg aatagactat gaagaacat atgctcctgt 360  
tgcaagatta gaagccatta gaatggcttt ggcataatga tccataatgg attntaaact 420  
ntatcaaatg gatgttaaga gtgcctttct aaatggctta attcaagaag aggrataty 439



<211> 440  
 <212> DNA  
 <213> Glycine max

<22> unsure at all n locations  
 <400> 14738

14738 14739 14740 14741 14742 14743 14744 14745 14746 14747 14748 14749 14750 14751 14752 14753 14754 14755 14756 14757 14758 14759 14760 14761 14762 14763 14764 14765 14766 14767 14768 14769 14770 14771 14772 14773 14774 14775 14776 14777 14778 14779 14780 14781 14782 14783 14784 14785 14786 14787 14788 14789 14790 14791 14792 14793 14794 14795 14796 14797 14798 14799 14800 14801 14802 14803 14804 14805 14806 14807 14808 14809 14810 14811 14812 14813 14814 14815 14816 14817 14818 14819 14820 14821 14822 14823 14824 14825 14826 14827 14828 14829 14830 14831 14832 14833 14834 14835 14836 14837 14838 14839 14840 14841 14842 14843 14844 14845 14846 14847 14848 14849 14850 14851 14852 14853 14854 14855 14856 14857 14858 14859 14860 14861 14862 14863 14864 14865 14866 14867 14868 14869 14870 14871 14872 14873 14874 14875 14876 14877 14878 14879 14880 14881 14882 14883 14884 14885 14886 14887 14888 14889 14890 14891 14892 14893 14894 14895 14896 14897 14898 14899 14900 14901 14902 14903 14904 14905 14906 14907 14908 14909 14910 14911 14912 14913 14914 14915 14916 14917 14918 14919 14920 14921 14922 14923 14924 14925 14926 14927 14928 14929 14930 14931 14932 14933 14934 14935 14936 14937 14938 14939 14940 14941 14942 14943 14944 14945 14946 14947 14948 14949 14950 14951 14952 14953 14954 14955 14956 14957 14958 14959 14960 14961 14962 14963 14964 14965 14966 14967 14968 14969 14970 14971 14972 14973 14974 14975 14976 14977 14978 14979 14980 14981 14982 14983 14984 14985 14986 14987 14988 14989 14990 14991 14992 14993 14994 14995 14996 14997 14998 14999 15000

15000 15001 15002 15003 15004 15005 15006 15007 15008 15009 15010 15011 15012 15013 15014 15015 15016 15017 15018 15019 15020 15021 15022 15023 15024 15025 15026 15027 15028 15029 15030 15031 15032 15033 15034 15035 15036 15037 15038 15039 15040 15041 15042 15043 15044 15045 15046 15047 15048 15049 15050 15051 15052 15053 15054 15055 15056 15057 15058 15059 15060 15061 15062 15063 15064 15065 15066 15067 15068 15069 15070 15071 15072 15073 15074 15075 15076 15077 15078 15079 15080 15081 15082 15083 15084 15085 15086 15087 15088 15089 15090 15091 15092 15093 15094 15095 15096 15097 15098 15099 15100 15101 15102 15103 15104 15105 15106 15107 15108 15109 15110 15111 15112 15113 15114 15115 15116 15117 15118 15119 15120 15121 15122 15123 15124 15125 15126 15127 15128 15129 15130 15131 15132 15133 15134 15135 15136 15137 15138 15139 15140 15141 15142 15143 15144 15145 15146 15147 15148 15149 15150 15151 15152 15153 15154 15155 15156 15157 15158 15159 15160 15161 15162 15163 15164 15165 15166 15167 15168 15169 15170 15171 15172 15173 15174 15175 15176 15177 15178 15179 15180 15181 15182 15183 15184 15185 15186 15187 15188 15189 15190 15191 15192 15193 15194 15195 15196 15197 15198 15199 15200 15201 15202 15203 15204 15205 15206 15207 15208 15209 15210 15211 15212 15213 15214 15215 15216 15217 15218 15219 15220 15221 15222 15223 15224 15225 15226 15227 15228 15229 15230 15231 15232 15233 15234 15235 15236 15237 15238 15239 15240 15241 15242 15243 15244 15245 15246 15247 15248 15249 15250 15251 15252 15253 15254 15255 15256 15257 15258 15259 15260 15261 15262 15263 15264 15265 15266 15267 15268 15269 15270 15271 15272 15273 15274 15275 15276 15277 15278 15279 15280 15281 15282 15283 15284 15285 15286 15287 15288 15289 15290 15291 15292 15293 15294 15295 15296 15297 15298 15299 15300 15301 15302 15303 15304 15305 15306 15307 15308 15309 15310 15311 15312 15313 15314 15315 15316 15317 15318 15319 15320 15321 15322 15323 15324 15325 15326 15327 15328 15329 15330 15331 15332 15333 15334 15335 15336 15337 15338 15339 15340 15341 15342 15343 15344 15345 15346 15347 15348 15349 15350 15351 15352 15353 15354 15355 15356 15357 15358 15359 15360 15361 15362 15363 15364 15365 15366 15367 15368 15369 15370 15371 15372 15373 15374 15375 15376 15377 15378 15379 15380 15381 15382 15383 15384 15385 15386 15387 15388 15389 15390 15391 15392 15393 15394 15395 15396 15397 15398 15399 15400 15401 15402 15403 15404 15405 15406 15407 15408 15409 15410 15411 15412 15413 15414 15415 15416 15417 15418 15419 15420 15421 15422 15423 15424 15425 15426 15427 15428 15429 15430 15431 15432 15433 15434 15435 15436 15437 15438 15439 15440 15441 15442 15443 15444 15445 15446 15447 15448 15449 15450 15451 15452 15453 15454 15455 15456 15457 15458 15459 15460 15461 15462 15463 15464 15465 15466 15467 15468 15469 15470 15471 15472 15473 15474 15475 15476 15477 15478 15479 15480 15481 15482 15483 15484 15485 15486 15487 15488 15489 15490 15491 15492 15493 15494 15495 15496 15497 15498 15499 15500 15501 15502 15503 15504 15505 15506 15507 15508 15509 15510 15511 15512 15513 15514 15515 15516 15517 15518 15519 15520 15521 15522 15523 15524 15525 15526 15527 15528 15529 15530 15531 15532 15533 15534 15535 15536 15537 15538 15539 15540 15541 15542 15543 15544 15545 15546 15547 15548 15549 15550 15551 15552 15553 15554 15555 15556 15557 15558 15559 15560 15561 15562 15563 15564 15565 15566 15567 15568 15569 15570 15571 15572 15573 15574 15575 15576 15577 15578 15579 15580 15581 15582 15583 15584 15585 15586 15587 15588 15589 15590 15591 15592 15593 15594 15595 15596 15597 15598 15599 15600 15601 15602 15603 15604 15605 15606 15607 15608 15609 15610 15611 15612 15613 15614 15615 15616 15617 15618 15619 15620 15621 15622 15623 15624 15625 15626 15627 15628 15629 15630 15631 15632 15633 15634 15635 15636 15637 15638 15639 15640 15641 15642 15643 15644 15645 15646 15647 15648 15649 15650 15651 15652 15653 15654 15655 15656 15657 15658 15659 15660 15661 15662 15663 15664 15665 15666 15667 15668 15669 15670 15671 15672 15673 15674 15675 15676 15677 15678 15679 15680 15681 15682 15683 15684 15685 15686 15687 15688 15689 15690 15691 15692 15693 15694 15695 15696 15697 15698 15699 15700 15701 15702 15703 15704 15705 15706 15707 15708 15709 15710 15711 15712 15713 15714 15715 15716 15717 15718 15719 15720 15721 15722 15723 15724 15725 15726 15727 15728 15729 15730 15731 15732 15733 15734 15735 15736 15737 15738 15739 15740 15741 15742 15743 15744 15745 15746 15747 15748 15749 15750 15751 15752 15753 15754 15755 15756 15757 15758 15759 15760 15761 15762 15763 15764 15765 15766 15767 15768 15769 15770 15771 15772 15773 15774 15775 15776 15777 15778 15779 15780 15781 15782 15783 15784 15785 15786 15787 15788 15789 15790 15791 15792 15793 15794 15795 15796 15797 15798 15799 15800 15801 15802 15803 15804 15805 15806 15807 15808 15809 15810 15811 15812 15813 15814 15815 15816 15817 15818 15819 15820 15821 15822 15823 15824 15825 15826 15827 15828 15829 15830 15831 15832 15833 15834 15835 15836 15837 15838 15839 15840 15841 15842 15843 15844 15845 15846 15847 15848 15849 15850 15851 15852 15853 15854 15855 15856 15857 15858 15859 15860 15861 15862 15863 15864 15865 15866 15867 15868 15869 15870 15871 15872 15873 15874 15875 15876 15877 15878 15879 15880 15881 15882 15883 15884 15885 15886 15887 15888 15889 15890 15891 15892 15893 15894 15895 15896 15897 15898 15899 15900 15901 15902 15903 15904 15905 15906 15907 15908 15909 15910 15911 15912 15913 15914 15915 15916 15917 15918 15919 15920 15921 15922 15923 15924 15925 15926 15927 15928 15929 15930 15931 15932 15933 15934 15935 15936 15937 15938 15939 15940 15941 15942 15943 15944 15945 15946 15947 15948 15949 15950 15951 15952 15953 15954 15955 15956 15957 15958 15959 15960 15961 15962 15963 15964 15965 15966 15967 15968 15969 15970 15971 15972 15973 15974 15975 15976 15977 15978 15979 15980 15981 15982 15983 15984 15985 15986 15987 15988 15989 15990 15991 15992 15993 15994 15995 15996 15997 15998 15999 16000

argtattac tagattggc acttctatc taacctggg aaggtctac aaagagaaag 180  
 ccaatattag aaagatgttt acttctgatg aatggacctt gaacaagcta tctaaggagc 240  
 ctatgggaaa agaagctgca aaggtatgct tcatngcctt cttttggaat agtgtggttt 300  
 acattcttaa agtcatgggt ccacttgga aagtgcctcg tcttgtggat ggtgaaagga 360  
 aacatgocat gggctatatt tatgaagcaa tggacaaggc aaaagaaaca attatgaagt 420  
 cttaacaaa caatgaaagc 440

<210> 14739  
 <211> 216  
 <212> DNA  
 <213> Glycine max

<400> 14739

cttaacaaag catctgttct agctgttctt gacacttcta agactcctga gccacgatgt 60  
 caagccgctg gagcgggagc tggagctgta ttgttacaag gaggtcacct tattgcttat 120  
 tctagagaga aactttctag tgcacccctc aactaccoca cctatgatga agagctttat 180  
 gccitaataa gagccctctt aacttgggaa cattac 216

<210> 14740  
 <211> 346  
 <212> DNA  
 <213> Glycine max

<22> unsure at all n locations  
 <400> 14740

taagctccta gctatcctca tagtatgctt ttatgagagt agtatatgaa gttctagtag 60  
 gtttacatcc gtttgccagc atatcaacca gataatctat ggcaagactg gtttgcctgag 120  
 ctttacatag tcccatcatt attgagttat aaatgaatgc attgggttta ataccaaaac 180

ctttaagaat ggaaaatttg attgttatga acttttcttca cactangeos ccactactga 240  
 agtgcgaagtt attagatcag gcttaagacc cttataacac atctcttcca agagctctac 300  
 agcaggttcg gcttttccca cctctaagag ccacttaatt attata 346

<43> 14741

acttgatag gcttcaatga tagacacgaa catgtataaa attttatgto ttacatgttt 60  
 ttctattat tctaccttaa actggcctag gcttgaattt aatttctttt tggacaccca 120  
 tgtctatttt gaaaatatat attcattcgt taaaagtgtc ttctgtctga aaaaattatg 180  
 tcttatatag tttttcttca aacaataact ttgttttctt cataaaagtc togagagatt 240  
 tctaaacata taattcaatc cttcttctga tcttcgcttg tacagggtgt aagcaacaca 300  
 taacacagtt atattaaaca tattatgaat acaaactctat aatatactat agtcctcaca 360  
 atatgaaaat cctctaatta tgaatacaaa tgtatactat atttatagtaa tcaacaatac 420

<110> 14742

<111> 316

<112> DNA

<113> Glycine max

<123> unsure at all n locations

<400> 14742

catgggcaga aatatgtcag catttatagg gtaaattggt cctcacatto ctgagaaatg 60  
 taaggaccca ggtactttct gtataccttg cattattggg aacagttaa ttgagaatgc 120  
 catgctagat ctaggagcat cagttagtgt catgcctctg gtcattttca attcttaato 180  
 tcttgacctt tacaatctac agatgtgggt attcatttgg canatagaag tgttgcttac 240  
 cccacaggtt tcatagagga tgtgntggtt caggttgggt aacttatntt tcttggttga 300  
 ttttatgttc ttaata 316

<110> 14743

<111> 426

<112> DNA

<113> Glycine max

<400> 14743

cttggtgtgta atcgattacc agacatgaaa attcaaattt caaatctgaa gagtcacaac 60  
tctttagaaa cgaactgtgt aatcgattac aacaattatg taatcaatta ccagtaaggga 120  
atggtcttat cctctcaata caaatctgtg taataactct caaaaagaat tcttfggtca 180  
aaacaacttgc aaatttaata aggaatcttg agtgatcttc aattgtata ttttctctt 240  
atagagagaa ttttctctct ttttctctat caaagagatt gattaaggga tggagagtct 300  
cttctg 360

<410> 14744

<411> 401

<412> DNA

<413> Glycine max

<423> unsure at all n locations

<400> 14744

actaagcttc cataataatg ctaccactat tgggggcttg ctattccatg atacatgttc 60  
agacctang aatngacatg taccactagt actcttctta tctattntg atccagcaaa 120  
atctgaatca gagtatctta ctagggttga taaagaattc ttaggatacc ataactctta 180  
actaaatggt cctaataaat atcttataat tctttttact gccattaaat gtgaaaactt 240  
tggatctgat tgaaatcttg cacacatgca tacactaaac ataatgtctg gctacttgc 300  
agataagtaa agtagagatc caatcatabc tctgtattgc tttggatcaa cagggttgacc 360  
ggattcatct tctcaagat aacaactcgt attcataggg g 401

<410> 14745

<411> 361

<412> DNA

<413> Glycine max

<400> 14745

ataaactgaa ttatactagc aaaggaatgg taagagatgt taaagttata ttatcaatt 60  
atcaagacta agtacattat ctgagatcac accttcttgc ttattcttat agggaaatga 120

tcattttatg gcaacataag taattgaagc cgtaaaaggat acacccctac tgcacattca 180  
 gtctggggaaa gacctgaact aaataacttt ccttgccaat gtaggtcacc gccataccta 240  
 gtcaaggggga acaagtttag gcaactcatt aaagcctagt taaagggtta gtcctctaag 300

<210> 14746  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14746

ctatatactt aatttatttt tttctgttta aaantcattg tcatataatt ttatattaca 60  
 atttaattct atattattaa aaaaataaat attattcatt ttaaaatggt taatttttaa 120  
 aaataataat tatgatacac tacctaatta agagaggaag natcttaccg ataatagatt 180  
 aaaaatatat atttgagaat ttatatagaa aaagtattaa tggagcatta acaatgcata 240  
 attggataga tgaagtgggt atttttaatt tggggactta taattntaca ntaaatgaag 300  
 tattctacac gaaaatntac tccaatggta aagttgttaa aaatgagtga ttaacataat 360  
 tttacatata ccacaatcat tgaaaaatgt tatttttgggt ataaaaattg taagcaatat 420  
 ggttatataa acaatattat atcac 445

<210> 14747  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14747

tcctaccctca ccaatagtnn ttgggggttg ccattcctga atgggtntct tcttttcttg 60  
 accaaccctgt actccctgtg agctaacaac aaaaccaagg aaaactacat ggtccaaaca 120  
 gaatgcacat ttatccatgt tagcatacaa gctcaaacgc ctaaggggcca ctaaaaagtet 180  
 cctcaaatgc acaagatggt catcatggaa ttctgtgtta atcaagatat catcaaaata 240  
 aaccacaaca aattttccta gaaattcctt taacacatgg ttcattaato tcatgaaagt 300



gctaggagca ttggtcaacc caaaaggcat aaccagccat tcatacagct catatttagt 360  
 tntgaaagtt gttttccatt cctcccctc tctaacccta atttgatggt acccaatttt 420  
 ata 423

<223> unsure at all n locations  
 <400> 14748

gggtctcgat atattacggg actctattag ttattcgagt caaaaghtat tggcatttga 60  
 catttcctag agcttccatt ttcaattccg aggtctctga tatattaaag ggcctaatcg 120  
 gacattcgag ttaaaagtta ttgtcgtttg aattttctaa gagcttccgt ttcaattcc 180  
 gaggtctcg atatctctat ggacacaatc ggacatccga ttcaaaagat attgtcgttt 240  
 gaatttgcct agagattcag ttccaatta cgagcgctctg gatattattac ggcactcaat 300  
 cagacatccg aattaaatgt tattgtcatt tgaactcttca tagagctctc cgtttcaatt 360  
 cagagcgctt cgatatatca cagggtctca tgggaca 397

<210> 14749  
 <211> 340  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14749

aaattcatga gatgctagca actggttgtt cccagttgtg atgatgattt tctgtctcgg 60  
 accaaaccaa tcaggtcttc cagcaattgc ttgtaattgc ttgtgtatgt caacatcctc 120  
 tagaatcaag agaactttct ttcccagag cctagactgt atgattgaaa ttcttgttg 180  
 cttacttgtt aagttgatgt tcatctctcc tagtatttct gaaagaagga ttgtttggag 240  
 gtgttctaac cctgttttgt ttgaatttcc cctcactttn gcaagaaaac acanacaatc 300  
 aaacttctca gcaattatca actatgaagc acggacacgt 340

<210> 14750  
 <211> 359  
 <212> DNA



caaaagcccta tataattacgg aagcaaacagt ttgctagtta gggataaggc atgggttggt 240  
 tggggagaga acatggaagt gagacacaca tgcctaaatg gtctgacag ctacaactat 300  
 gtagcttata gatggactgt tcaacttgc acaaacgata atcgattgga aaagataact 360  
 tttttagt tttttagt tttttagt tttttagt

<21> 1  
 <22> DNA  
 <23> Glycine max

<23> unsure at all n locations  
 <400> 14753

ttctagtttc tggagccatt caaaacaatc aatttgatgc catctagatg aagaaatacg 60  
 atttcattat gaagatgcca actttgctct aggtcatgtc ctttggcttg aaaaatgcac 120  
 aggttacata ccanagatta atggaccaaa ttttcaaaca gcagatcgaa caaaatgtca 180  
 agatctatgt cgaagacaag ggtgtcaaat cctatagcat agtccaacat gtggcagacc 240  
 tagaagaggt attcggagaa atttacaaat acaacatgtg ccttaactcg aanaaatgca 300  
 ctttcagggg cyggcggaggc agattctctt tcatgatcac acatctggga ataaaagtca 360  
 accctgacaa atgcataggc atactggcga tgcatagtcc taccaacatc caagaagctc 420  
 aaatcttgaa tggtagact 439

<21> 14754  
 <22> 406  
 <23> DNA  
 <23> Glycine max

<23> unsure at all n locations  
 <400> 14754

ctcaactcaag gtaataagag tgtagangag naactttaag agttggaggt gtctttgant 60  
 aaaaggcaatt tagtgaagat cgagaggtca ctatggcatg tttcttatat gggttgaata 120  
 gtgatataag ggaatgtata gattgttga attatgtgga gttgaagaac ttagtacatc 180  
 aagttgtcaa ggtagaacaa caattcaaga ggaaggacag agataagaat aagtgaggtta 240  
 ctctctcaag caattctatt gctgcacctc aaaggyctaa aatttaagtc aatgagtcac 300  
 ctaaaaaaga caaggagtaa tgaagtaaaa tctctcatgt gtttaaggag aggtcacata 360

gctatgtagt gtcacaactaa gaaaatttatg ttacttaagg atgatt

406

<210> 14755  
 <211> 285  
 <212> DNA  
 <213> Glycine max

ttgaatgagt gctatgtagt gtcacaactaa gaaaatttatg ttacttaagg atgatt 406  
 ttggtttgac aaagagacagt ctggcagttt cgcatacaaa caaagagcttg aaagtgggcta 120  
 agagacagtggt ttctgcagtc atattcatatc caatcaagta ttaaaacaaa tccacaatca 180  
 aatttataac actcgagcta ttttatgtac aaatcaaaaa tcaataatat gaagggaaaa 240  
 aagacagatc caattacat tgtgaagcaa cctgggcaat taaca 285

<210> 14756  
 <211> 469  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14756

ntetaacana aaatttcatg caggtggacc ttcttctagt ttatttgact tactgcaggc 60  
 tcatatccct ctcccatctt cacttagagc aattccaaac aaaaaaatgg aagaagcgca 120  
 aaaggagatc ttggagacct tcaggaaagt agaggtgaac atacctctgc tagatgccat 180  
 caagcagatt ccaagatatg ccaagtttct aaaggagttg tgcaccaca aaaggaagct 240  
 caaaggcaat gaaaggatta gcatgggcag aaatgtgtca acattgatag gtaaattctgt 300  
 tcttcacatt cctaagaaat gtaaggacct aggcactctt tgtatacctt gcattattgt 360  
 gaataagaaa tntgagaatg ccatgctaga tctaggagca tcagttaatg tcatgcctct 420  
 gtccattttc aattctttat ctcttggacc ctgcaatct atagatgtg 469

<210> 14757  
 <211> 469  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14757

atactgaact ataaactata aagataccaa gnncaacttt tcttgtctag cttgtctctc 60  
 ttaatnngag gcacataagt aaaacacaaa catctaaata cttgaaattt ttccaagaag 120  
 ggtttataac catabcaagc ctaaaaaaga gtctttccat ctattgcttc ggtggaaagt 180  
 ttttttggg aattttttt tttttttttt tttttttttt tttttttttt tttttttttt 240  
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 300  
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 360  
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 420  
 cagtcactnt gctttttcaat ctagtgttta aatctccaaa atacacttg 469

<210> 14753  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14753

tcttcaggg ggagagataa cattagcaat gtattaatag cattcaagat agaaaatttt 60  
 atgtactaca tataatgaaa tgacagacgt tattttctgaa ttcagctago actacaatto 120  
 atccgtacgt taactaatat ctttaattaat atcacacagg caaggcacaa taatctttta 180  
 tatcttaatt aatattttatt tattctgaaa gattctttta gttggatata aaaaaatgat 240  
 ttttttagta caatgaaaca aacaagcaca aattgataaa aaaaaacctc ccatatataa 300  
 ttataataat atttatattaa attagagcgt tntaggagct actattttata ttaacaataa 360  
 caactggaaat attttttttag agacnattcc gaagattttc taactttcta tatggatcca 420  
 tctat 465

<210> 14759  
 <211> 346  
 <212> DNA  
 <213> Glycine max

<400> 14759

gagagcctcg aactggaata ccgaagctct gagcaaatc aaacgacaat aactttttac 60  
 tctgactctt gattcagccc cgttaatat ccgaacgcct gatattgaaa gttgaagctg 120  
 tgaacaaact caactacaat aactttttac tctggctgtct gattcagacc aataatatat 180

cgaaaacgctc aatattgaat ggtgaagctt tgagcaactt caaacaacaa taacttatta 240  
ctcggatgtc tgattgagac ccgtactata tccagacgct cgacattgaa taccyaaact 300  
cttataaaaaa tcaaaactaca ataaactttt acctctgaagt tagatt 346

<210> DNA  
<211> Glycine max

<400> 14760

tgcagcttgt caggaagttt ctgcattttt cctataaga atgcaattta ataataagcg 60  
ggaaagccaag ccaaatgttg gaaattaata taaaagaaga aatataagca aaaagagtca 120  
tggaaagtcaa gaactcaacc actaaattca gatgaattgg cagagtaaag caaaaaata 180  
ttaaattgaa gaatcgacgt tcttcaagcc actgtttgac aggcataact ttatcattag 240  
cacttttcca ttcatttgca accacaacag ctactc 276

<210> 14761  
<211> 226  
<212> DNA  
<213> Glycine max

<400> 14761

ttgtttggct gatttaaagc atttgaatta cttggacttg agcgggaata gatttccttg 60  
agaaggatg tcaattcctt cttttcttgg gacaatgact tcttgactc acctcaacct 120  
ctctcactact ggattccgtg ggaagattcc tctcagatt gggaatctct caaatttggc 180  
gtatcttgac ctgagttatg tttttgcaa cggaacagta cctct 226

<210> 14762  
<211> 265  
<212> DNA  
<213> Glycine max

<400> 14762

taatatattga agattatcct tctggaacct tcacccaacg aagacactga caaaaactta 60  
tcttctcctt ctgggacaaa gaatggcagg ctggggggcaa gttaaatttct tctccatcag 120  
accttggatg caactgtgat cgtatgccc tataagctag atcttgacg gtattcaagc 180

catacttctgt cttgccttga atgttaagga gcagoccaat cacactgtca caaacatttt 240  
 totocacatg cataacatca ataca 265

<210> 14764  
 <211> 262  
 <212> DNA  
 <213> Glycine max  
 <400> 14763

tgggatttcc ttttaatatg gaatttatcc ttcctaaaaat ggagocaaac ccaatcacc 60  
 ttattaaaaa ctagctcttt tcttctctta ttgcctttta gtgaatcac ctttgtttga 120  
 tctctatttt ggttctttaac cctctcatgc atctctttta caaattctga cctagattcc 180  
 ccttcttttat gtataaaaga agtgctcagt gggaggggaa tgaggtctaa cgggtgttagg 240  
 ggattgaacc catagacaa ctaaaaaggg gaattgcttg tggttctat 260

<210> 14764  
 <211> 262  
 <212> DNA  
 <213> Glycine max  
 <400> 14764

tttgcattga agcttaaccc ctattctttt aaccctaaaac tctaaaaact aaacctataa 60  
 ctctaagget tagacaccaa accctaaatt tgaaaaccog aaaccttaa cccaaccttt 120  
 taaagccctt aacctataaa tataaaaaat aaacctataa cctaatggt ttagacacca 180  
 aaccccaaac ctcaaaacc taaaccataa acccttaacc cttaaattct atccctaac 240  
 cctaaactca gaattcta at ac 262

<210> 14765  
 <211> 244  
 <212> DNA  
 <213> Glycine max  
 <400> 14765

acaacattcc tggcgacatc tcaaaaaggg tcaccactat acattatctc aaagattttat 60  
 gcaaaacatg gcttttctat ctatgaagga acctaaagaat ttaaatgaag ccttcataa 120  
 tgaaaattgg ataatatcta tgccggaaga actataacca ttgaaaagaa ataattgtgtg 180

ggagtttagtt gagaaacctg aacgctaccc aatcattggg acaaaaaggg tgtttagaaa 240  
 taaa 244

<210> 1476  
 <211>  
 <212>  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14766

ataaatgaga taagagatga gagaatggg accttgcctt atactgggtt ggengaggee 60  
 gtgcttactt ccaataacta agcaacccgc ttgagattat cctttctctt tggtaattct 120  
 ttacaaactt ctgaaccaca cagggacaa ccatcccttg tgttgatgaa ttcttacaac 180  
 ttaagagacc cttagtccct taatcaatct ctgtgaatga gaagaaagaa agaagaactc 240  
 tctcttgaag aaaaggatat tacaattgag agccatggag aaactcttaa tg 244

<210> 14767  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14767

gagtcacctc ggggcatgca agcttgtggt gcanaagttg atgggtattca tactaagatg 60  
 ggtttgcgct tagatgtcat tactaggtgg aattcaactt ttctgatgct taagagtggc 120  
 cttgtatata gatgtgcttt ttgtagtctt tcatttgatg ataggagcta ttcaagttgt 180  
 cctactaata tagaatggga gagaggacaa aanatgtgtg atttttttgca tcctttcttt 240  
 caaatcacag agttgatata tgattccctt taccacaacat ctaatttgta ttccatgcaa 300  
 gtgtggaaaa tgaatgttt gttgcttcaa aatttgagta atgaagatga gttgattaga 360  
 accataacta ttgatatgaa aacaaagttt gataaatatt ggagtgatta tagcaatgtg 420  
 ctttccctttg ggtgcattct 440

<210> 14768  
 <211> 462  
 <212> DNA  
 <213> Glycine max





togttogagt ttttgacgaa gggcatcaaa catatcttgg cgagtggtaa ggaggaagtc 300  
 cacagctcg actgatgatg aaccaggaag gtagtcgggg atatcggtt ggtggttccc 360  
 gtacattacc tggat 376

<400> 14771  
 tctctctctt accagtttt cctctctctt gcatacacc aaatttctc cagtaaaaat 40  
 agtatccaa acttggttaac gttggatca tegtcaaagt tgaacattag gttggaaatt 100  
 atattcacac atttcacca ttgggatttg aaaaataagg cctacggagg gagaatttgt 160  
 catcgacac agacagtga aggaaggta taatcccttc tctctctctc taacactga 240  
 aaactctagc agaggaagc gtttggggaa tcttaggaaa ccaactagaga tttctctcac 300  
 tatcaaaact cactcatgag ccaactaga ggtaagagat gagtttatcg caattaggtt 360  
 tagaatgaac atttgtaggg atccgtagag gatcaaattt aggtttaatt tgggatgttt 420  
 attggattgt aattctctta gaaaatggtt gaggagtttt act 463

<210> 14772  
 <211> 444  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14772

tgatatactn tagctcttgg ctctattaagc ttgtaatnnn cataatctng aaaccttaat 60  
 tcttccaatt gatgaagttg tagcttccca tgttcaactg ctgcatttag atcaaaattc 120  
 aaaattcttca atgtctcaata ggcttctgtc cccaactcaa taggtaagtg acaagttttg 180  
 ccatagataa atttgaaggg agtcagtcct ataggagtat tgtatgcaca cgtagcttta 240  
 tctaatnttt gagactagtc ctctcttgac tgagcaacta tttctctcag aattctcttg 300  
 acttccctat taaaaacttt agcttgcctt atgggtctatg gatgctaagc tgaggtctac 360  
 ttgtgtctaa cactatagtg ttggagaact tctttaggtt ggatgttata gatatgagat 420  
 cctctatcac ttataaagta cctt 444

<210> 14773  
 <211> 398  
 <212> DNA  
 <213> Glycine max

caagataga attgactagt gactataatg taagtggcag tttaaatggt tctgacttat  
 atttttttga tgcagatgga ggagccttgg atttgaggac aaatcctttt caaggaggga 130  
 gtagagagga cataaccaa ggcaaggacc atgaagcaat tgaaggcccc atgaccagag 240  
 gtagacttaa acaagcccaa cacatcatag agacaaggct ggccatttgt atagctgtca 300  
 ttgagatga ttgaaggccc aagtggagaa agatgaaggc ccagaggcag aggcactacc 360  
 aagaactacta attgttgtgt aaggcccaaa ctaacttg 398

<210> 14774  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14774

tgcaagcttg cccaacaaat aaggaaatnn tottaattct ctgatactta attratcttg 60  
 ttgccaaca ataaaaactg tcaaagtacg aagatattgt agtctacaga ttgtgtgtgc 120  
 catctctgga aaattagtgt aactgatgtc caggtggcgt aaattaacca gatttcttat 180  
 cggctgtggc aactgaataa gaaattcaca atttgataat atcaaagttt gcaaattgta 240  
 aagcataaat gtttcatagg acaagctttc aatggaagtg taagaaagat ccagatacca 300  
 caagtgcaac aaattgccaa tggaatcagg taactcaatg atatttntat atttagacaa 360  
 cgaacgtata tggaaacatc tcagtttttg aaaccaacca tgataagtgc ataaattaaa 420  
 atactggttt caagggtac 439

<210> 14775  
 <211> 297  
 <212> DNA  
 <213> Glycine max





aacccaactaa ctctcttttga tctttttgct atgcctaatag tttctgtttt taagcataaa 180  
 gaaggtaag caaaggcgga ctatgtgaag aagcttcctg agagagtaa agatcaaatt 240  
 gagaggaaaa attaaagcta tgcctttataa gccacaaga ggagaaa 288

<210> 14781  
 <213> Glycine max

<400> 14781  
 tctcttcctg aatacttgtt acccaatctc ttccttcact attgaagaag catgcaatgg 60  
 gtaaaagaa gtctttttga gaattatcta agccatcata ccttaatttt aatatggcat 120  
 gaatttttgg atttggata ttcggagtt ttggcaatc acttttccat gctctttac 180  
 tcttacttc ttgaagaag atttgaacc agaactttta aagccaaagg aatacttctg 240  
 gaataagaaa tt 252

<210> 14782  
 <211> 252  
 <212> DNA  
 <213> Glycine max

<400> 14782  
 ttcttttagt ctctcagaag aagacggtg gcagaaaagag gatatttttg ctctccaaac 60  
 tccatgctcc caacaaatga atacaaattt gcgtttgggt ctccacatta gatgaaggct 120  
 ctataatcat ggaatttgaa gtctctctgt aaggaagaag ttacatccag cctttgtttt 180  
 atcttcaagt tngtctcacc atccaagttc atggtctcaa catagcaaac tgcctctca 240  
 taactggagg aa 252

<210> 14783  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14783  
 aggtctana ttgagtcct aactcttaag tatataatgc attaaataat taaaagaaaa 60



<210> 14786  
 <211> 472  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

aagatttcta aagaagttag agcttagcta cacatagctc tctaataget aagctcacac 60  
 cttctataat agctaagctc acccccatga caaaaaacat gaaaatataa aaaaaagtgc 120  
 ttaactaaaa gaactactaa aatggcccca aatacaaggg taaaacctta tactactaga 180  
 atggccaaaa tacaaggcca aaacgaaggg aaaactatt ctaatattta caaagataag 240  
 agggctcata ctttagccat gggctcgaaa tctacctaa ggcctatgag aaccttaggg 300  
 ccttcctctg gatctctago ccaatctact tggagtcttc taactaatgc ccttgccgga 360  
 taggattgca tcaatccctc cagcttggag aggatttgac ctcaaatgac gaggtctctc 420  
 ataactctggg ctacttccct caacacctgt aaaaagaaca aaaacatatg ta 472

<210> 14787  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14787

tataaaaactc aactgaagca actggtgctt tggtaacttg gaaccagct gttcttgaat 60  
 cagaaatctg taactgtcgc aagggtttgt ggttngtget cctctgctga ccaccatata 120  
 gaactttgac cttccatgca gcaacctgga gcaattgagc agcctaaagc ttatgcagca 180  
 aataratata atagaacctc tcaacctcag cagcaaaaac aaccacagca gagcaattat 240  
 gaactttcca gcaacagata caacctgga tggaggaatc acctaacct cagatggtcc 300  
 agcctcagc aacaacaaca gcagcctgct ccttcccttc aaaatgctgc tggcccaagc 360  
 agaccatata ttcctncacc aatccaacaa tagcaacaac ccagaaaac 409

<210> 14788  
 <211> 430  
 <212> DNA



<213> Glycine max

<223> unsure at all n locations

<400> 14738

ttgtatcgat tacacaccat actgtttcaa ttaccagagg agtattttcag actatattct 60

caaatcatt ttatctcttt acaaattcct tggccaaaac acattgtgatt caataaaggaa 120

ttatttgagt gttcacattg ttcaatctat ctctctagag agagattttct tcttctcttc 300

ttctttatto tgaanaggga ttaagagacc gaaggctctct tgttgtgaaa gaattctaaa 360

caaaaaggaa ggaattgtcct tgttgtgtta gaaattgtan aaggaattta caagatagtg 420

gaactttcag 480

<213> 14739

<211> 325

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14739

acagagatgc cagtctacca ttcaactntt agacttcctt gatgtttgga aggggtgtgca 60

tctctagtat agttatgcan ttgtcggggc tgactttctat tccctgatgc gtgatcacga 120

aaactatgac ctgtccttcg tcaaccccaa aagtacattt tttgggttga ggcacatggt 180

atatttgtgg atttcttoga acacctcttc tangtctgcc acatgtangg ctatgccata 240

ggacttggca accatgtcgt caacatagac ctgcacattt cgtctaattct attgtttgaa 300

gatctgaccc atcctctctt ggtat 325

<213> 14790

<211> 286

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14790

catecgagta aaaaagtgat tgtcgtttga atttgcctcat agcttcaaca tccaattntg 60

agcgtcttga tatattacga tactcaatcg gacatcccau taaaaaagta ttgtcctttc 120

aatttggttca gagcttcggc attcaagtc gagctctctg atatactaag ggaactcaatc 180  
 agacctooga gtaaagggtt attgtcgttt gaatttgctc agagcttcga cattcaagtc 240  
 cyagcgtctc gatataattac gggactcaat cagacatccg agttaa 246

<213> Glycine max

<223> unsure at all n locations

<400> 14791

ccagaacact atcagtggtc tggaaactac ccacattac ttgatggcgc ccattgcaagt 60  
 tgaagcctt ggaggaaaga ggtatgcta tttgatgog gatgatttct ccagatttac 120  
 ctgggtcaac ttatcagag agaaatcaga cacttttgaa gtattcaagg agttgagtct 180  
 aagaactcaa agagaanaag actggtcat ccacagaatc acgagtgaac atggcagaca 240  
 gtttgaaaac agcagcaga atggcatagt tgaaggaaa aacaggactt tgcaagaagc 300  
 tcttagggtc atgcttcctg ccaagaaact tccctataat ctctgggctg aagccatgaa 360  
 cacagcatgc tacatccaca acagagtcac acttataaga gggactccaa ccacactgta 420  
 tgaaatctgg agagggagga agccaactgt caagca 456

<210> 14792

<211> 413

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14792

taatntaaa ccagaatggt gaagctgta ataaagatga aggtgatatg tttttttctt 60  
 atgggatatgg aggtacagga aaaacatata tttggaaaac acttgcaagt tcaactgagag 120  
 ctgacaataa aattgtaata atgatagcct ctaggggcat agcttctctg ctattgcctg 180  
 gaggtagaac tgcacattca aaatttaaaa ttccagttcc agtttttgaa gactcaactt 240  
 gcaatatcca tcaaggaaact caattagctg aactattaaa ccagacaagt ctaatcattt 300  
 gggatgaagc acccagact cacaattct ggtttgaggc acttgatcac agctttagag 360  
 atatcatcaa acacaactca naggacagta aaatcttggc adgtaaaactc atc 413

<210> 14793  
 <211> 323  
 <212> DNA  
 <213> Glycine max

gaacttggtg aatgataatt ttcatggctc gtaagggcag atggccaaa atcagatgct 12  
 atattctgac tccatcttat ttggaggata gacatgtgga ggagtaacta gttctcttgag 180  
 ggttcatac gtaacaagtg ttctttgata tcttgcctt cattagaact tcaactcttat 240  
 tttttagtca caagcattct gactgtgtga gagttacatt gaactcttca tccacacagct 300  
 aactaatgct gatcaagctt gca 323

<210> 14794  
 <211> 473  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14794

acacctctct aatagctaag ttcacctctt tgagatgaga agctagagct tatctacaca 60  
 cccctataa tagctaagct caccatattg acaaaaaaca agaaaataca aaaaaagtc 120  
 ctactacaaa gactactcaa aatgccccga aatacaaggc taaaacccta tactactaga 180  
 atggccaaaa tacaaggccc aaacgaagga aaaacctatt ctaatatcta caaagataag 240  
 cttagctcata cttagcccat gggctcgaaa tctacctaa ggctcatgag aaccttaggg 300  
 ccttcccttg gatctctaga ccaatctact tggagtcttc tatccaatgc ccttgcgng 360  
 taggattgca tcaacctcat atatttttcc caaggccacc aagtgtgtag aatgattcac 420  
 ttgcacatac aatcccataa tgggtataac aatagcaaca tcttcttccc ctg 473

<210> 14795  
 <211> 424  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14795

agcccattgtg cttgattcaa tattgattca agacttcaag atcaagcacc aagaatccaa 60  
 tccaagatto aagagaagaa atcaagaagc aacaagtcaa gaattcatat aggataaata 120  
 ttaaaagaat ttttcaaaaa ccaaatagca cagntttggg ttacaaaaga attttctcaa 180  
 tatcttcaaa tagtgttaatt gattactata ttgttaattg attacaagtg attctgagaa 240  
 ttggaattca aatccaattg tgaagagtc caacttttca tataatacat tgtgttaattg 420  
 atta 484

<210> 14796  
 <211> 321  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14796

cgaaatgggtca taactnttca ctgggatgtc cgattcgagg gcataactca tctagatgct 60  
 cgaaattgaa catcggaagc tctcgagaaa ttogaatggc cataactttt cacacggatg 120  
 tcccaattta ggacataata tctcgagaca ctcgaaattg cacaacggaa gcactcgaga 180  
 aattogaatg gtcataactt ttcacaogga tgnctogaat tgggacataa tatatcgaga 240  
 cgtctgaaat tgcgctacgg aagcactcga gaaattcgaa tggtcataac ttttcacacg 300  
 gatgtctgat tgcgggacat a 321

<210> 14797  
 <211> 417  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14797

tctcgatata ttatgaacct taatcggact tccgtgtgat aagttatgac catttgaatn 60  
 tcttgagggc tttcgtttgt caatttcgag cgtctcggta tattatgcgc ctgaatcgga 120  
 ctccgtgtgt acaagatatg acccattgag tttctcgaga gcttccgttg ttcaatttcg 180  
 accgtcatga tatattatgc aaactgaatc caacttcgtg tgacaagtha tgaccatttg 240

aattttctoga gagcattcgt tgttcaattt cgagcgtctc gatataattat ggccttgaat 300  
 oggaagtcog tgtgacaagt tatgaccatt tgaattttctc gagagcatcc ggtgttcaat 360  
 ccagagcatc ccgatataatg atgcgcgcaga attggacttn cgtgtgacaa gttatta 417

<113> Glycine max

<123> unsure at all n locations  
 <400> 14798

tactcagctg aagaattatt tgatgatgcc aaggaattta agaattattt ttatgatgcc 49  
 aaggaatttc aaagatcatt ccagatgaat ttcaaggatg aagaaagcaa gatgtcaagc 120  
 caagcaaaga tcttaagata agaattaaga tagactctta gaanagtttt tgaaaagcac 180  
 aaatgatctg ccaagtgagt ttctatctta acaaaaaactt ttccaagcat tntactctct 240  
 ggttaatcgat taccagaggt tgtaatcgat taccagtggc cacaagactt totggaaatg 300  
 ttatcaaatg tattttcaaa gttttcaag ctataatoga ttacccaaac tatgtaatcg 360  
 attaccaatg ctttaaaaacg ggtaaaaatg attntgtcat gtgtaatoga ttaactagagc 420  
 tintgaactg tggacatttg aattntgaac aaaaataatt gtgtaatoga ttaagccaat 480  
 gctgtaatc 489

<110> 14799  
 <111> 494  
 <112> DNA  
 <113> Glycine max

<123> unsure at all n locations  
 <400> 14799

gctgcattgc caattccatt tgatgaagcc aatntgtgga aaggccaaag tggacctgat 60  
 ctaaaaacaga taattcaaca acaattttaga aacatcaggt attacttcaa actagtggaa 120  
 gtggactgag ctctgtctag ctaaatatta tccatttaata acttgcaggg ctttgtttgtg 180  
 gcttaatctc ttgttaagcat gcatacaact gctaaaaaat gacaattgat taccaatgat 240  
 tegtatgaat gcttacaataa ccatttttgt ggaaggaatc atagtatata taggttggat 300  
 tctatctaaa atcccatcat tgatattttt actcctacag tctggnttct cttttcattt 360

tgagatttcc acatactgat ggatgctaaa tnnnggttgg ttatctggac tctttgattg 420  
 ctgatctaata ctgaacataa gacaactaaa tgaccactcc ttttacttgn tctccattta 430  
 ttattctatt actg 444

<213> Glycine max

<223> unsure at all n locations

<400> 14800

tctaatccctg aggggttatgg tgcttncttg gngatttcaa tatcattaga agccaggatg 40  
 aaagiadagg ctcatctcan aggagtgtgg gcacatataa tggttttggg tccaatgatt 120  
 gcatatcaga catggaaatt caggaaatta aaagcttttg tagcagattt acttgggtgta 140  
 ggcbaaatgg atatgtgagg agtangctcg atagatgctt ggtttcagaa cagtggctac 240  
 ttaaatggcc tgattcttca caacaagtac tccacatgga ttattcttat cactgtccaa 300  
 ttattttgaa aacagatctg gtggattggg gccctaagcc atttaggggtg atggactggt 360  
 ggttaaaaaa taaagagtat caaagactgg ttaaagaagt gtggtgtggt gaccaacaac 400  
 ttggatgggg gagtattgtg cttaaaaaac 449

<210> 14801

<211> 416

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14801

tattcttnta atgaatttaa ccaatataa attgtttaac atattgtgta tgttattaac 60  
 acttctatta agattatata ttttcttaat taatcatatg agaactctta attagaaact 120  
 actttgtgcy atgcacatat tagagtgata caaatgttag tttcagagca gtaaagataa 180  
 tacatatttt taaataagaa tgtagaacaa aaactataaa aaattgtttt aacaacaata 240  
 caatctaaaa ataaagaaat attttcttga ataaacatcc ataaaatctt agaattttta 300  
 gacatgttct catttcaatg ataaaaaaaaag aagacctgtt ctcatantt tctaaacaaa 360  
 tttttagacc atactggaat gcattataaa aaaagtaatg tgaataaata catgta 416

<210> 14802  
 <211> 393  
 <212> DNA  
 <213> Glycine max

ttgtatgaa atagaaattt gctcagggct tccgtattcc atttcgagcg tctcgatata 170  
 ttaagggaact caatcggaca tccgagtata aagttattgg tgtttgaatt tgcctcagagc 180  
 ttcaattattc caattcgagc atctcgatat attacgggac tcaatcaaac atccgagtaa 240  
 aaagtatttg tagtttcaat ttgttcaggg cttctgtatt ccatttcgag cgtctcgatg 300  
 tattacggga tcaatcaga catcccgagt aaaagttatt gtcgttagaa attgctcaga 360  
 gttttacat tccatttga gcttttcgat ata 393

<210> 14803  
 <211> 252  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14803

agacatcatg gaaagcatca agatagttag aattgttccac atagatngtg aaggcctcan 60  
 agaacacctt cattgaaagg taatatgtat tacactatat ttattgatga ctccaccaga 120  
 atgtgttggg ttttttctt caagttcaaa tcagaggtgg ctgaaatttt ttggaagtgc 180  
 aaagtcaagg tagagaatga aaacgggtctc aagattcaaa ttttgaggtc tgacaatggc 240  
 accgagtaca ca 252

<210> 14804  
 <211> 423  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14804

attgaagaat atgtttctg actataaac gtttcccaag aattattacg aggcagaag 60

atattatgtc ttgtgggtat ggaataccaa anaatacatg catgcacctaa tgattgtatt	120
ntgtatagaa atcagtttgt cgaaattcgc aactacccta catgtgggct ctcaagctac	180
aaggtcaagt atgacgaatg cagtgatgat gctgccacta acaaccattg tccaaaaaaaa	240
ctctatggtt gttttttttt cctttttttt tttttttttt tttttttttt tttttttttt	300
ttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt	360
ttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt	420
ttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt	480
ttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt	540
ttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt	600
ttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt	660
ttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt	720
ttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt	780
ttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt	840
ttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt	900
ttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt	960
ttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt	1020
ttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt	1080
ttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt	1140
ttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt	1200

```

#210>      14806
#211>      304
#212>      DNA
#213>      Glycine max

#223>      unsure at all n locations
#400>      14806

atctctctctt tcaactacatc aagaatctctc ggggttggtgt ttctctgttg ctgnttactg      60
gtttagctctc atctctctaaa tttattcgat gcatacatgt ggatgggcta gtaccaggaa      120
tgctcgcagcag ggtccaacct atagcctctc tatgctctct gagaacagac aacaactctc      180
ctctctgcctc atcaactaagg gaggcagata taatcattgg aaaacatttg ctatcatcca      240
aataagcgta ttttaaatct gatggcagag gcttcaattc tgggtgtgtt ggcctgggtat      300

```



aggt

304

<210> 14807  
<211> 416  
<212> DNA  
<213> Glycine max

ttgagggttaa agtctcaccg atgttcagtg ctcatgcaac ttctgttagt cgtgggtata 60  
ctagacatct gccaaacaaa gtcagggttaa cgataactca cctatgctnt ttcttccatt 120  
ctatatgttag caaagtcatt gatccagtca tatntgatga gttggaaaat gaggcgcgca 180  
ctatactgtg ccagttggag atgtatttcc ccttgcctt ctttgacatc atgattcact 240  
tgattgttca ttgtgtcaga gaagcagaag aagccattga atttcttca gaatacttag 300  
agaaggctaa acctgttggg cttcctgagt ctggcatga tgacagagtg gttgggaagg 360  
gtccaagagg actgcangtg atcaactcaa gtgtagaaga ttgtttacaa gctcac 416

<210> 14808  
<211> 485  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14808

aatactcaag cctaaatggg ggaatgaaaa anaagtntgt atccagacaa gagttatcat 60  
tttcatacct aattttgtct ggggaattgta acctcatttg ctttcttata aaagggactt 120  
atgttaaatt chtaattgaag tntggtcaca gtaactcttg ttttagcgtc atgccaacag 180  
ttgaaataga caggaaaaga gtaatgagga aacaactgac attggaagta ttttaaagga 240  
aagcaatgaa gaagtcacac tagttatctt acatcaggaa tgaaactggt atgaaaacat 300  
aagaaatacc tcaaatatag gagagaaaact cacanaatac taactctctt tatctgtggt 360  
tcanaaccca tatcaagcat tctatctgcc tcatttagaa caacaaaaga aattctggag 420  
aggggaagtgt tgccttgttg taaatgata atgaatcttc caggggtggc aactgctatt 480  
tcaac 495

<210> 14809

<J11> 355  
 <J12> DNA  
 <J13> Glycine max

<J23> unsure at all n locations  
 <J40> 14809

atttaaaatg ggttttatta aagccctatt taaaatgtag catgcagtgt taacggcttc 60  
 agcccaaaaa ttttttggaa gaggagtatc atttaataaa gttctagcaa tctcttccaa 240  
 agatctattt ttcttttcaa caaccacat ttgntaaggg gttcttggtg cagaaaagtt 300  
 atgttcaatc cctacttat cacaataatag ttcaattct ttattttcaa actca 365

<J10> 14810  
 <J11> 364  
 <J12> DNA  
 <J13> Glycine max

<J23> unsure at all n locations  
 <J40> 14810

ttcttttaca attgcatcac ctctcaatga gctgggtgaag aagaatgtgc attttcttag 60  
 ggtaaaaaac aagagccaag ccttgctttg ctcaaagaaa agcttactaa ggcacttggt 120  
 ctagetcttc ctgacttttc taaaactttt gagctaaaat gtgatgcctc tggagtggga 180  
 gttggagctg tattgttaca aggtgggcac cctattgctt attttantga aaaacttcat 240  
 agtgccacat gggctataca caccettacc catggatgtg tggcttggtt acaagccaag 300  
 tctaggggtga tgcctcatgg gctatacaca ccttaccoca tcccatcttc acct 354

<J10> 14811  
 <J11> 397  
 <J12> DNA  
 <J13> Glycine max

<J23> unsure at all n locations  
 <J40> 14811

tgccttatte aatggagttg acaagaatat cttcagaatg atcaattctt gcacagngcc 60  
 aaagatgcat gggagatcct gaaaatcact catgaaggaa cctccaaagt gaagatgtcc 120  
 agattgcaac ttttggccac aaaatttcga aatctgaada taaaggaada agaattcatt 180

catgaacttcc acatgaacat tcttgaaatt gccaatgcct gcaatgcctt gggagagaag 240  
atgacagatg aaaagctggg gagaaagatc ctcagatcct tgcctaagag agttgacatg 300  
aaagtcactg ctatagagga ggcccatgac acttgcaaca tgagagttaga tgaactcatt 360

-----  
1000 bp contig

<210> 14812  
<211> 477  
<212> DNA  
<213> Glycine max  
<400> 14812

ggaggtaaac tagatgcctt ggttaacttg ttaacccaac tggccttgaa ttaaaaattg 60  
caccatcgc cagactctat ggtctatgct cctctgcga ccaccataca gacctttgac 120  
ctctgtgca acaatctgaa gcaattgaac agcctgaagc ctatgctgta aacatctaca 180  
acagacctcc tcaacctcag cagcaaaatc aaccacagca gaacaattat gacctctcca 240  
acaacaggta caatcccgga tggaggaatc atcccaacct tagatggctg aatccttcac 300  
aacagcggca gcaacaacaa cagcccatat tcaaaatgt tgcctggcca agcagacct 360  
acgttccttc accaatcccg cagcaacaac aacaacaaca 400

<210> 14813  
<211> 377  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14813

actcagctga gcagatggat gtcaaacaaac ccttttgcac ggggaagctgg atgagacct 60  
ttatatgaag caactcacta gntctgtcaa aaaggggtgat gaacataagg tatgtttgct 120  
caatccatcc ttatatgac ttaaacaaac tcttanaatg tggatatagg gttttgatga 180  
ttatatgatt aaaattggat tttctaggag tgtttatgac tattgtgtgt actagaaatg 240  
tcacaagaat gagaaaactaa tttacttgtt ggtgtatggt ggtgatatat atgctactga 300  
ccagctaaag cctgactgan attgctagag ttaagaaatt gttgaatcta gagtttgaga 360  
tgaaagatct tggacat 377

<210> 14814  
 <211> 359  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400>

aaaaagprr tttttttt gttggtttgt tttatgtgt ttgttttggg aaacagaaa 171  
 aaaaagaaaa taacaaataa atgagacagg cacagattgt gttggtttgt gtttggttgc 180  
 ttgtgattca taactccaaag ttgttttggg ccaatgtaga gtatgatcac agagcattgg 240  
 ttatggacgg taagcgcagg gtattgatct ttggttcac taattacct cgtagtactc 300  
 gagaggnctc tctctctctt tctctctctg ngtgtttctg gtttcttttc ttggaactt 359

<210> 14815  
 <211> 315  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14815

gaactcaact gggcgacaat agtattaaat tcattaatac gatgagccac agagataact 60  
 tctcccatct tgagggttgaa caaccgacgc atcaaatata ctctgggggc tatcgatgac 120  
 ttcttgtaca taattgataa cgccttcatt aagcctgcac tcttctctga tacaatgttg 180  
 aacggacat tcttggctaa tgtcaatctg atcacgcac gagtctatcg atctagcgag 240  
 ttccattctt ctgtctcat gtctctggc ttaatgctg atgaggggng atacaacttc 300  
 tttgatata gataa 315

<210> 14816  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14816

tggtcataac ctctcacatg gaggtttcta ttangcgcat aatatacga gacgtcdaa 60  
 attcaacaat gaaactctt caaccaattc aatgtcaca accttactct cggagggttc 120

attcatgcac ataatatatc gagacgctcg aaattgaaca atggaagctc ttgagttatt 180  
 caaatgggtca taactttttca ctgggaggtc cgattcatgc gcataagata tgaagattct 240  
 caaaaattgaa caacggaagc tctcgagaaa tcaaaatggt cataactttt cacacggagg 300

<210> 14817  
 <211> 275  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14817

tcacctgggtt caagcacgac tttctttctg cttttgatgg cttgccttgc atagctcgca 60  
 tttttctttt caatgtgaac cttcacttgc tcattgcaact tcttcacata ctacagctnta 120  
 gctgtgtcat ccttatgctt aaacatagca atgttaggca taggcaacaa atcaagagga 180  
 gtcaaaggat taaatccata cactatctca catgggtgaac aattagttgt gctatggaca 240  
 gcccgattat aagcaaactc aacatgaggc aaaca 275

<210> 14813  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14813

agactaagtt tagcttagca tctcagact gatggccaat ctgaacggac cattcattca 60  
 ttggaggacg ctttgagggc gtgtgtttta tagcaaaaag gaagttggga gattgttctt 120  
 ccattgatag agttcactta taataaaaagt ttccattcta cgattggcat ggctccctat 180  
 gaagctntgt atggtagaag gtgtaggaca cccctatgtt ggtagagcc tggaaaagac 240  
 ctacacctat gacgggaagt ggtacaacaa accaccgaga aagtcagtt aatccacgaa 300  
 aggatgaaga ctgctcagag taggcagana cgttttcatg ataagtgaag gaaagatctg 360  
 gaattcgatg ttggtgatca tgtattc 387

<210> 14819  
 <211> 334  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14819

ttatccactt gaggttaatg ggtattcaga ttcacactct gttggaatgt tggatacag 180  
 tgaatccact ctgggttatg tatttctcta agccagagga gcagtatctt ataagagtgc 240  
 taagaattta gttgtagctg catctacctt ggaagctgag ttgttaaag gtttgatgct 300  
 acactctaaa ctaattgggtg cagaacctta ttca 334

<210> 14820  
 <211> 399  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14820

agctunaatg atacactatg gncacgttac tctttgtaat tcatatacaa gtctgaacag 60  
 tcacaaactct tcagaaacta actatgtaat caattacaat agttatgtaa tcgattacca 120  
 gtcaggaatt ttcaaaaata actctcaaga gtcaaaaactg ttcaagaaag ttttgaatgg 180  
 ccatacaaaag cttataaata ggtgactcgg gacacgaaat tcttagagt ttgtctgaac 240  
 aacattatct ttctctctca aaacanaatt gtcttataac tctcaaaata ttcttggcc 300  
 aaaacaattg caaattcaat aaggaatctc gatcgatctt caaatttaat attcttctct 360  
 taaacagcga agtcttctta ttattattct tattcaaag 399

<210> 14821  
 <211> 252  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14821

ctatgatgaa acctatgtcc ctgttgctag gttagaagct attagatctt tcttgcttt 60

gcttgtataa tgaatttttg gttatatcaa acggatgtga aaagtggata cattgaagaa 120  
gagatatatg tgggagaaaac ctccaggttt tgtagacttt aatcactcta atcatgtaca 140  
caagttggaa aagacactat atcgattaaa acaagaacct agatcttggg acgaaagatt 240  
tgcacatttt ct

<212> DNA  
<213> Glycine max

<400> 14322

tcttagtttc agatgatgca gatgggtttg agctacctca tcaactctct aatgactatg 60  
gcactatttc tggcgctaaa ctgctgggag ttggaggcca tcttctcaat taaattttctg 120  
gcttcagcaa gagtcatgto tccaagggct ccaccactgg cagcatctat cataacttttc 180  
tccatattac tgagtccttc ataaaaatat tggagaagaa gctgtttctga aatctgatgg 240  
tgggggcaac tggcacatag tttcttaaatt ctctcccagt actcatacag gctctctcca 300  
ctgagttgtc taatacctga gatatccttc ctgatggctg tggctctgga agcacggaaa 360  
aaattttcta agaatactct ct 380

<210> 14823  
<211> 292  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14823

ctatgatgag acctatgtcc ctgttgcctat ggtggaagct attagatttt tcttgccttt 60  
gcttgtataa tgaatttttg gttatatcac acggatgtga aaagtggata cattgaagaa 120  
gagatatatg tgggagaaaac ctccagctt tgtagactct aatcactcta atcatgttca 180  
caagttggaa aagacactat atcgattaaa acaagaacct agatcttggg tgcgaaagatt 240  
gagcaatttt ttagttgggc aatcttttct atgagatcaa gttgacaaaa ca 292

<210> 14824  
<211> 401  
<212> DNA  
<213> Glycine max





cccaatcaga agagagggtg tagcaatggc aataataact cttcattagc acaatgtgct 180  
 tttcaatada ttgtgtgcaa gttaaagaga ttgttccctt ccatcactgg ccgaattctc 240  
 ttgttttcaac ttgttaatgg attggaacct gatactattg atgaagctct cagatatgga 300  
 ttttatttga tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt

<210> 14827  
 <211> 366  
 <212> DNA  
 <213> Glycine max

<400> 14827  
 agtcttgcac gtatcagtca agtgtatgga ctatatcgta gccaaagtgc ctatcgataa 60  
 ttgttccagt ttaaacgtga ttgctaagag cactttggag aaattaccat tcaatgcctc 120  
 ctacttaaaag ccgagttcaa ttgttggctg ttgcttccag cgtacccgcc gagagggttag 180  
 gggagagatc gatctccag tacagatagg cctcacacc tgtctagtta ctttccaaat 240  
 aatggatatt aacctccct acagctgtct gttggggcgc ccgtggatcc actcagtagg 300  
 agttgttccc tcaacactcc accaaaagtt gaaattcgta gtggaagggc atctggtcat 360  
 cytatc 366

<210> 14828  
 <211> 465  
 <212> DNA  
 <213> Glycine max

<400> 14828  
 ttgggcacgc aagcttcatg gtatggcctg tatctatag ttatggagtt ctttaaggcca 60  
 aagttgcata ttctatatt gtaagctctt gcaggcttca ttgtgaagag ttgttcgtct 120  
 ttccatcac ctttagctgt ttgtccattg ataaggacac cttcatgctt accaagagag 180  
 ccccccgtat ccaataaact cctcagaatg gtgtgactct ttgtgtacca gtcaccaatg 240  
 agaacggtgt attcactctc aggaatctgg taaggcacac gaataatcat ggcactgttt 300  
 acacgaaggc caccacaaac accagctgcc ctatgcattg ctgtgctcgg gtagaataaa 360  
 gaactgccta ttgtctctc accgatacc aacgtgaagt ttctctggcg aatgggcagt 420

attttetgcac cectetttgca tgaattcttt tgtgtggatg ccttc

465

<210> 14829  
<211> 296  
<212> DNA  
<213> Glycine max

tttgttaaaa cataagcact tatacaatga atgaaggttg gagttgttg acatgagtc 60  
caagtttatg caaggaatc agattggggt gcacaatgca caaggcaaaag ataaaatgtc 120  
aatgaagat ttgaagctgc aggatccacg atgtcggaca cgatgtcctg acatcgggc 180  
tgaataact ggacacataa atctgttata tctttaacag attaatgtgc agttagcaac 240  
agaattggcg atctatcttt aggaacgaat tanaagataa ttaaagtctg aattac 296

<210> 14830  
<211> 467  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14830

ttggcaatgt actcaacgaa gtacttgtgt gcctctaaaa taaaaggatt aaaaatatat 60  
cagttacata ggcagttgga tctgtaagag ctgataagc tttggcaatg tactcaacga 120  
agtacttgtg tgcctctaaa ataaaaggaa taaaaatata tcagttagca gttacatatg 180  
cgattgtagg aatccaacat tctgcaaac atcaaagttg gcattgcaac aataaaaaaa 240  
aataaacaac tgaacacct tcaacctgga tctgggtttt tatctggatg gtattgaata 300  
gaaagtcgcc tatacttttt ctttatttca gactctgccg ctccaggttc taatctaga 360  
atattaaaag gatcanaaat ttcaatctgc atcaaaatta aaagaaaaat ttcagaacgt 420  
gcacnagtgg aagtctcagc caattagtaa aatgttaaac acaaata 467

<210> 14831  
<211> 336  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14831

cttcacaaat cgtctataaa aacttgctta gccatgaaaa ctctcactt cggtcacaga 60  
 cttaggtgta ggccattctt gaatagccct aacctctctt tcatcaactt gcactccttt 120  
 tgaattcaga acaaaaccaa gaaacacaa atgggttagta caaaaagatgc atttttcaag 180

tatgaaactt ctcaagatat gggtcattaa tttctt 240

<210> 14832  
 <211> 444  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14832

catgcaagct tctgttatga atntcagagt tctcgatata ctacgggact ttatcggaca 60  
 tccagagtaaa aagttattga catttgaatt tgcctatagc attcgtttgc aattaacgagc 120  
 gctcagatat attaaaggat tcattccggac atccagagtaa aaagttatta tctttttatt 180  
 tgcctcagag ctctctgtttt caatttcagag catctcgata tattacagga ctcaatcggg 240  
 tctccagagtc aaaagttatt gtcttttggg ttctgtaaga gcttccgggtt tcaattacga 300  
 ggcctcgaat atgctaaggg acacaatcgg acatccagagt aaaaagttat tctcgtgtga 360  
 atttactcag agcttccgtc gtcaattacg agcgtctcga tatattacag ggattacttg 420  
 gacatccgag taaaaagtca ttgt 444

<210> 14833  
 <211> 326  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14833

nngettatat gattggctaa tatcttgta atacataagc actnagacaa tgaaggaaag 60  
 ctggatttuc tgcacatgat gtccaacgtt atgtcaagga atcagatcgg gctgcacaat 120  
 gcacaaugca agataaaatg tcaaatgaag aattgaagct gcaggatcca cgatgtcggg 180  
 tacaatttcc agcacatcct gcccacaaat gcacaaggca tgataaaada attcaagctg 240

caggatccac gatgtctgat actatgtcca tgacatcttg ccgaaaata ctggacacat 300  
 aaatctgtta tatctttaac agaata 326

14833  
 14834  
 14835  
 14836

<400> unsure at all n locations  
 <400> 14934

agcttaaatc cttaactgca caggtcttat tatttgaaga gtatccttgt ggaaccttca 60  
 cccaaagaag acaactgaca aaacatatct tctctctctt ggacaaagta tggcaggctg 120  
 ggggcaagta aattctcttc ccatcaaac ttggatgcaa ctgtgatctg ataccatat 180  
 caactagatc ttgaagggtta ttcaagccat ccttcgtctt gccttgaatg ttaaggagcg 240  
 tcccaatcaa actgtcaca acaactttct ccaatgcat aacatcaata caatgtctaa 300  
 ctcaagatc acaccagtac ggaagatcaa agagnatgga cctctctctc catatgcaac 360  
 tatgaactatt atccatcttt taggtcttcc cacatacaat attcaggtgt tgaacccgct 420  
 gatatacctg ctca 434

<210> 14835  
 <211> 329  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14835

aagatgtgct gaattctcta gagaactgtct tcttagaaat aaaaaggcaa tggatctcta 60  
 tatgtttggc acgctcatga aaaattgngt agatgtaata tgaggagctg cgtgattaac 120  
 acaaattagt ctcaagtcca acctcacaca tttagctctt cagcgattag tctaattgnt 180  
 ttatacatta ttgacaagt tgtgagagtc atagcttgaa tttctgcttc agctttggac 240  
 ctgcaacca catntgatt cattttcttc cctttccatg aaatgagaat cctcaanat 300  
 agaacacaat atccaaaggt ggatctct 329

<210> 14836  
 <211> 300

<112> DNA  
<113> Glycine max

<123> unsure at all n locations  
<400> 14836

atgagcctt gctgagctt atgagcctt gctgagctt atgagcctt 60  
gctgagctt gctgagctt atgagcctt gctgagctt atgagcctt 120  
gctgagctt gctgagctt atgagcctt gctgagctt atgagcctt 180  
atgagcctt gctgagctt atgagcctt gctgagctt atgagcctt 240  
gctgagctt gctgagctt atgagcctt gctgagctt atgagcctt 300

<110> 14837  
<111> 391  
<112> DNA  
<113> Glycine max

<123> unsure at all n locations  
<400> 14837

caatagacct ccaatcttta atggagaggg ttaccactac tggaaaaccc gaatgcaaat 60  
ttttattgag gcaatagatc taaatatttg ggaagccata gaaatagggc cttatatacc 120  
caccacagta gaaagagttt caatagatgg tagttcatca agtgaaagca tcaactataga 180  
aaaacctata gatagatggg ctgaagagga tagaaaacga gtacaataca acctataagc 240  
caaaaacata ataacatctg cctgtggaat ggatgaatat ctcaangttt cacattgtaa 300  
gagtgctaag gaaatatggg acactcttag attaacacat gaaggaacta cggatgttat 360  
aagatctatg atacatgcac taactcatga gta 393

<110> 14838  
<111> 389  
<112> DNA  
<113> Glycine max

<123> unsure at all n locations  
<400> 14838

agcttgaath gngtaccatt ateggtgaca atggcataag caagaccgta tctgcatatg 60  
aaccttctca cagtggcctt gcttcaatcc accttggtyaa atagtcaatg gagaccacaa 120  
agaacgtaac tcttcttctg ccttggtyga cggccttagt atgtccatcc cctacatggc 180

anaaggccaa ggggaactaa agttatggaa gttgtcgggt ggtgttcacg gaatttctgg 240  
 catgttaaat accttcttgt taagttaagg gggcctacct taagtgtcgg ccaatagtag 300  
 ccatcatgca ctancttttt ttccagggag cgcctcctcg tgtggaggcc aaagaatcct 360  
 caatcaat ctctctctct ctctctctct

<112> DNA  
 <113> Glycine max

<400> 14839

atcctcttag tcaactgccg catgcaagct tggcactcgg atgtctcgat ggatagtggg 60  
 agtcatgctc ttgcgaacat tagatcgaaa gtatatctgt ctcccaagct ttggtatttg 120  
 agggtaatg tgataaaggc acaggacct atgcctaactg ataagggtag atacctgag 180  
 gtatttgtga aggtattctt ggggaatcag gctcgaaga ctagaatctc tcaagtatga 240  
 gtattaatcc aatgtggaat gaggatttga tgtttgtggt ggcagaacag tttaggagcc 300  
 gctgattttg 310

<110> 14840  
 <111> 319  
 <112> DNA  
 <113> Glycine max

<400> 14840

agagaaggag aatggattaa agctccatt ccactatcta cgcgggatga gtatttctcc 60  
 ctccaaagac attaatctgc aaatctcaac ggtgaaaaca tgtgaaagtg gcattcaaat 120  
 cctgtgtccc aatttcacga agatccaacg gttacagaa cctggattgt agttttacta 180  
 agatagtctt gggtttctgc gggaagagaa aaagttacaa tgcgaagggt atttctctca 240  
 gcttcgacat tgtttcgcaa ttttcaacgg tgagaattct tggaaataag tttcaaacct 300  
 ggggctgaaa tatcatgac 319

<110> 14841  
 <111> 351  
 <112> DNA  
 <113> Glycine max

<223> unsure at all n locations  
 <400> 14841

aattttgtgc ctccatgaa gtctgaactt tgaagtgtaa ttctcaaag atcaaagttg 60  
 ataaaaatcca cacacatagc ctctatattat agcacaagtg tccacacaaa ttagaggggaa 120  
 ttagagggggg ttagagggggg ttagagggggg ttagagggggg ttagagggggg ttagagggggg  
 ttagagggggg ttagagggggg ttagagggggg ttagagggggg ttagagggggg ttagagggggg  
 ttagagggggg ttagagggggg ttagagggggg ttagagggggg ttagagggggg ttagagggggg  
 tatatgatgt ggcaatggag ttagagcaaga aaatgttcac attccccctc a 361

<210> 14842  
 <211> 444  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14842

agctntacta tacagagaat atccaaggaa ttacacctca totgacttag catcaaattt 60  
 tectaagtta tcttttccat tattcaatac aaaacattta caaccaaaga tatgaagatg 120  
 tgagatgttt ggttntctgc cattgaacaa tccatatgga gttttcttca aaatgggtct 180  
 tattaagcc ctatataaaa ttagcatgc aatgttaacg gottcagccc aaaagtattt 240  
 tggagagga gtatcattta ataaagttct agcaatctct tccaaagatc ttttttctt 300  
 ttcaacaaca ccattttgtt gaggggttct tgggtgcagaa aaattatgct caatcccatg 360  
 cttatcacia aataattcan attctttatt ntcaaactca cccncatgat cactccta 420  
 agatataatc ttgagatttt ctta 444

<210> 14843  
 <211> 454  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14843

agcttatcat acatcaaact tggagaaaaga gtcttttggg tcaagacatg agaagcaatc 60  
 aagtataatg ttacttctt cactaaagcg gtgatccatc tccacacata ttttatcaat 120  
 agcaacataa aaaatcttgc caggttaatg atgaagatca gtgatautcc tcccttctgc 180

tcttgaacga tcccgaaacg gtatttcgtc attcatatct ggtaacggaa taacttttagc 240  
 tacacaaaaat ccttggacat cggcaaaaaa attattccag ccactctctc tcattgtgac 300  
 caacggagct tggacaacat caactaatc catggcattc acaatattaa gatctttct 360

<210> 14844  
 <211> 350  
 <212> DNA  
 <213> Glycine max

<22> unsure at all n locations  
 <400> 14844

ccacaaatct ggaactgtcg caagtgtttg tggtttgtgc tccctgtcag accaccatac 60  
 agacattttgc ccttcacatg agcaacctgg agcaattgag cagcctgaag cttatgctgc 120  
 aaatattttac aatagacctc ctcaacctca gcagcanaat caaacacagt agagcaatta 180  
 tgaacttttc agcaacagat acaacctgg atggaggaat caacctaac ccagatggtc 240  
 cagcctcag caacaacaac agcagcctgc tgcctccttc caaaatgctg ctggcccaag 300  
 cagaccatac attcctccac caatccaaca acagcaacaa cccagaaaac 360

<210> 14845  
 <211> 297  
 <212> DNA  
 <213> Glycine max

<400> 14845

atgcaacaat tgttagccgt ggctatacga gacatcttgc caaacaaagt caggttcacg 60  
 ataaatcgcc tgtgctttt ctcccatgct atatgtagca aagagactga tccagtaatg 120  
 cttagatgagt gggaaaatga ggcacaaatt atactgtgac agttggagat gtattttccc 180  
 cctgctttct tggacatcat gattcatttg attgtgcac tggtcagaaa aatcaaatgt 240  
 ctgagctcctg ttatctacc gtggatgtac ccggttgagc gatacatgaa gatctta 297

<210> 14846  
 <211> 318  
 <212> DNA



<400> 14846

<..10> 14847

<11> 322

<12> DNA

<013> Glycine max

<025> unsure at all n locations

<400> 14847

<010> 14848

&lt;: 11 &gt; 261

<1.12> DNA

<213> Glycine max

<400> 14848

6261

<210> 14849  
 <211> 331  
 <212> DNA  
 <213> Glycine max

atgggcctga atgggacctc cgagtgaaaa gttatgacca tataaattgc tcaagagggc 121  
 ctatggctca atttcgagcg tctcgatata tttatgcgct taatcggaac tccgagttaa 180  
 aagttatgac cattggaatt gctcaagaac ttcattatt aaatttcgag cgtctcgata 240  
 tattatgcgc cttaaattcgga ccttcgagtt aaaagttatg accatattgaa ttgctcaaga 300  
 gctttcattg tccaatttcg agcgtctcga t 331

<210> 14350  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<400> 14350  
 tgcctctaca ctaagaagca ctctttattg agtgaatcac caaagagaga acaaccacca 60  
 aaattgagga cggttttgta attttgtaat ttacaattta cttaccttca tttctttcaa 120  
 gttttgtaac aaaaaggcct ttcattggaa gtgtgttggg agctccaat aagttaccaa 180  
 acctccattt gtgtgtaata attttaggca attttccctt aggatagtga gtgttttggt 240  
 gggaaccttg aatgtggta tccaaacact cttaggattt gcttagttta catttcttgc 300  
 ttactttcat agcttatttc ctttaccttc cctttta 337

<210> 14351  
 <211> 331  
 <212> DNA  
 <213> Glycine max

<400> 14351  
 tgaatatgat tatatgatgg atgattatgt tgagaatgag aggtgaccag gaagatagct 60  
 aagggaattg aagtggcaca catgcttagg ccttggggaaa gagatagttc attgtttcac 120

caatatctgt tgggtttttt cttcatactt gtttttacat tttcttccat ttttaccata 180  
 gtaatagaag cagtgtgatg tagctccatt ggagcctgta ggctttggat cttcttccat 240  
 aatggagtc cttgtctctt gaagtttgat ggcagcggaa aggagaagga gaaatatgat 300  
 tttttttt tttttttt tttttttt tttttttt

<210> 14852  
 <212> DNA  
 <213> Glycine max

<400> 14852  
 ttacttcaat attttcctaaa tcttttataa tcttgttgaa atcagcctaat tgttcagtgg 60  
 cagttcttga cctgttccat ttgaagatgt acagttgttg cttcctagcat agcagatttg 120  
 caaggaaatt tgtcatatad aatgactcca gtttcctcca ccttgaggtt gttgtccttt 180  
 cttcttgcac cttcttctaaa gcttttatct caagcctatg aatgattgca cttcttgctt 240  
 tgcacatcat cttctaatct tcttttgagc ttaaagattc tgacatcctt tcttctctct 300  
 caagagcttc taccacagcca tgggtg 325

<210> 14853  
 <211> 338  
 <212> DNA  
 <213> Glycine max

<400> 14853  
 tccattgttc aatttcagat gtttttttat attatgcgcc tgaatcggac ctcctaatga 60  
 aaagttatga ccatttgaat ttctcgagag ctacctttgt tcaatttcgt gctctctgat 120  
 atattatgag cctgaatcgg accttcagat gaaaagttat gaccatttga atttctcgag 180  
 agcttcctgat gttcaatttc gagcgtcttg atatattatg cgaactgaatc tgacctcggg 240  
 gtgaaaagtt atgaccattt taatttctca agagcttcctg ttgttcaatt ttgagcgtct 300  
 ctatctgtga tgcgcctaaa tccagacatcc gagttaaa 338

<210> 14854  
 <211> 336  
 <212> DNA  
 <213> Glycine max

<400> 14854

tagctacaca taacctctcta atagctaagc tcaacctcctt gagatgagaa gctagagctt 50

agttacacac cccctataat agctaagctc acccccatga ggaaaaaat gaaaataaca 100

gaaataatga tttatgaaa gaaaactcaa tttttttttt tttttttttt tttttttttt

aaacctaggg cttttccttt gatctcttgc ccaatc 350

<210> 14855

<211> 340

<212> DNA

<213> Glycine max

<400> 14855

tggggagaat caaatattat tgggttgtat taatacatat ggatcatcta tgagaaaaat 50

taggaccaag gacataaaaag atataacttg ttatgatgat gtatatatac gtagatatac 100

tggttacttg gtttgcttaa tgtgcaatac atacaaaact ttcacacata tttctaat 150

aaataaatcc aataaat 200

ttagtataaa aatatataat gttgcaacga gttgcaacga caaatattaa gactatagac 250

caaatagaa gctaacaaaa tcaaatacta atttatttat 300

<210> 14856

<211> 324

<212> DNA

<213> Glycine max

<400> 14856

tcaacattca atttcgaggg tttctatata ttacgggatt caatcagaca ttcgagtaaa 50

aagttatttg cgtttgaatt tgcacagagc ttccggcattc aagtcggagc ctctcgatat 100

actacgggac tcaatcagac caccyagtaa aaagttattg tggtttgaat ttgctcagag 150

cttcggcatt caagtcaat cgtctcgata tattacggga ctcaatcaga catccagta 200

aaaagttatt gtcgtttgaa ttgctcaga gcttccaaaa tctatttcga ggcgttcgat 250

atattacggg actgaatcag acat 300

<210> 14357  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<214> unsure at all n locations

```

ttcctgaaaa atgtaaagat ccaggtacac ttagcatacc ttgattata gggaacaata 120
attttacaa tgcctgcta gatttaggag cttctgttag ttttatgcct ctgcctatct 180
ttaaattctct atctctaggt cctttgcaat caactgatgt ggttaattcat ttagctaata 240
gaagtggtgc ctatctgtct gggttccatag aggatgtctt agttagagtt ggtgagctca 300
ttttctctgt tgattttat attttaaata tggaggaggg attttctaaa ggatcagttc 360
ttatctttct aggcagacct ttatatgaaa ctggtagaac taagatagat gtatatgtac 420
gtacactatc tantggagtt ggtgatataa ctatcattt taatattctt gatgctataa 480
acacca 486

```

<210> 14358  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<214> unsure at all n locations

<400> 14358

```

ntgagaagca tctgatcttt nggcacac aaacattca gcttgatcct ttgtctacaa 60
aatcgacgtt aacatataaa tgttaacac aatttttgaa aaaactgatg ttatccaagt 120
gatattaaca tgggttttcg aaaaaccaat gttaacattg ctctgttaac attgggtttt 180
caaaatcaga tgttaacac ttcatgttta ttacaattat gccccacct tttctaact 240
ctatttaac aaaaaccaat gttaaacac ttttttcta gaagtatgtt ttgatgaata 300
gatctctgct tcaattaata taggaccca ataaataaga ccatgataac actgagaagg 360
tctcatactt ctattgaat taattatcta cgaaggagat gaatcaagaa gatattgttg 420
atttcattgt ggcctatgat attcaagact aaaggccaat ctatgctcta tcataatata 480
tatttc 486

```

<210> 14859  
 <211> 483  
 <212> DNA  
 <213> Glycine max

<400> 14859  
 1

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

ttggatgagt ttaattgctat tggatgaaga gaggatattc tatatgatat cgcagaattct 121  
 ttataacaaa tgcattattta tggaaaagat tataaaggan aagggaaagg aagcaatgaa 180  
 gatcttcocaa aagaagccaa atcaaataat gaacttcocaa cagaatggaa agcttcgaga 240  
 gatcatcenc ttgagaacat tattggtgat atctcacaag gggtaacaa tagacattct 300  
 tttaaagata tatgcaataa tatggctttt gtgtctatga ttgaacctaa naatctaaat 360  
 gaagccataa tagatgatca ttggatagtt gctatgcaaa anaaactaaa tcagtttgag 420  
 aaaaacaatg tttgggaact agtagagaaa cctgaagact accccatcat atgaacacaa 480  
 tgg 483

<210> 14860  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<400> 14860

atatagatgt cttctcttaa atcccatgc aagaatgcag ttttaacatc taactactcc 60  
 aagtgaagat tctctacagc tactatgctc agaataactc tgatggtagt catctttaca 120  
 actggagaga agatctctgt gaaatcaatt cctttgttct gctgaaaccc ttccaccaca 180  
 agtctctgct tgtatcttct tctaccttta gattcttctt ttagcctata gaccaccta 240  
 ttctgtaaag cctcttttcc ttctggcaat ttagttaaag accacgtctt attctttctga 300  
 atggatgcc a tctctcttct catcgttagc tcccaactca tagtgtcatt cccctgtgta 360  
 gctctattga aacattcttg ctcaccagca tcagttaaca acaaataatg caatgaaggy 420  
 gaatacctat ctg 483

<210> 14861  
 <211> 298

<J12> DNA  
 <J13> Glycine max

<400> 14861

ttcagagagct tccgttggtc aattttttagc gtgtagatga gttatgtccc cgaatcggac 60

attcttcgag agccttcggt gatcaatttc gagaagccctc acgaattatg tcccagcatt 120

aaacttcga gtagaggactt acgaccaaga gaattttctg agagcttccg ctgttcga 200

<J10> 14862

<J11> 396

<J12> DNA

<J13> Glycine max

<J23> unsure at all n locations

<400> 14862

tgtatcgat tacacacata ctgtaatcga ttaccagatg agtttttcaa anaacattct 60

caacagtcac atctttntat ctgattctta agtggccatc aaaggcttat atatatgtga 120

ctagagacac gaatttaaca agagttttta agaacaaaaa ggtcttattc tcttaaaaag 180

caaaatcatt ttacctcttt acaaattcct tggccaaaac tcttggtgatt caataaggaa 240

ttatttgagt gctcaaattg ttcaatctat ctctttcaag agagagttct tcttttcttc 300

ttcttcattc tgaaaaggga ttaagagacc gagggctctt tgttggtgaaa gaattctaaa 360

cacaaaggaa gggttgtcct tgtgtgttta gaactt 396

<J10> 14863

<J11> 380

<J12> DNA

<J13> Glycine max

<J23> unsure at all n locations

<400> 14863

agtgtccata ttatctctta gtttatgtca tgaanataat ataaaactac aaagcacatt 60

taaataataa cagcttccaa agttacaga tatcatcata tctatgatat gatgatccaa 120

taacaagcaa aactgaaagg tagtttcaat tgggtataag ttgcataaaa aaatttaaaa 180

acactaagac tactcaatc tgaactcgag caaggataac aatttddgaa cctagcttct 240

cttcagcaac cttctcggtt ttcaccctta atttgttgag ctgcttcttt ctctcataaa 300  
 ccaattgtgt cttctccttt ctctctcttt ctgctccta tgagcaataa aacaattact 360  
 caca'cagca aacacatcta 380

<210> 111  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14864

tctaaactnt atacaagaat gaagctctga taccacttgt tagacaagtg gctcacaata 60  
 tcttaagaag ggggggttga attaagatat tccaaactac ttcaccaatt aaaaacttat 120  
 ttcacttctt ttcacaagta taaattccct taacaatgaa cttcttaaat attaatccaa 180  
 ataaaaacaa cttgaatatg aatataaaga aataataaac aaaggagttt aagggaagag 240  
 aaagtgcaaa ctcagattta tactggttcg gccacaccct tgtgcctacg tccagtcctt 300  
 aagcaacccg cttgagagtt ccactatctt gtaaatccct tttacaagtt ctaaacacat 360

<210> 14865  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14865

aagcttataa aanaactata ataagtcaca agttacttgg atcatgaatt gtttgtgta 60  
 aataaattca tatttaatta aatttatcta gttattatta aatatattct atgtagcatt 120  
 tcttttacat gccataagta tcttttgagt atttaagaga aatgcatact caagatgcta 180  
 ctattaatta agataaaaaa aaatagaaag aataatttag aatttaagat aaatatcaca 240  
 agtgtcccat gagtattatc ctatatccaa gatactataa ttattaatgt ttcattatc 300  
 aataatattg acatcacata tatatatata tatatatata tatatgaggt gctgtattat 360  
 tateactatc attaatatat atcactatta ttgctactat caatagtact actatatcat 420  
 tgcacagct cactacccc c 441



<210> 14866  
 <211> 460  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14866

atgagagaaa atacaatggg aagacaatta ggcgcatttc atggaactat agacatatg 181  
 ttaggttagg agaagcgatt gaagacatct tgaagatcca caactcttcc ctgttgcgtg 240  
 acatgatcca atattggaag gagaccatta tgcaccttga cgtgaatggt ttccactaaa 300  
 aacacctcga agctttttctg cttaaagaga gaatggaaga gaatccctgt gtacttccat 360  
 gcttcataat cagcggagaa aataccgtct ccgaacgcct ganaaatgtg acgaaactcg 420  
 ggtcccttga cgtagttgag gaaattcttg ctccagcatgt 460

<210> 14867  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14867

tagtatccat ctgtgggcctt ttccccacaa ctctttgtaa tgggagagaa attttcatct 60  
 aaagcataca agtccctaata gttatcaaat cctaaaattt gagctccttg ggagcaaaac 120  
 aatgtgtgtc tctagagag agcatcaact accacatttg tttttccctt ttgtatttg 180  
 ataacatant ggaaatgctc tangtactct acccattttg catgcctttt gttaactcg 240  
 ctttgccttc taatgaactt aagtgattga tgatcactat gaatgacaaa ttccttgga 300  
 acaaggtaat gttcccaagt tcggagtgtc cttattaatg cataaagctc tttatcat 358

<210> 14868  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14868



aatgccttg cggggttaga ttgcattcatt acttttcaat cagat

405

<210> 14871

<211> 414

<212> DNA

ctcagcttga ctttcaactt cgagcgtctc gtttatattt acgactcaat tatacatccg 60

agtaaaaaagt tattgtcgtt cgaatttctt cagagcttca acattcaatt cagagcgtct 120

cgatatatga cgggactcaa ccagacatct cagtaaaaacg atattatcgt ctttaattggt 180

ccagagcttc taccattcaat ttgagcgtc ccgatatgtt acgggactca atcaacgcac 240

cgagtaanaa gatactgtcg gttgaattgg ctgagagctn caacattcaa tctcagagcgt 300

ctcgatatgt taccggactc aatcagacat ccgagtgaaa aggtattcgt gtttgagttg 360

gtccatagct tcaacattca atttcagcgt tctcgatata tgaacgggact caat 414

<210> 14872

<211> 445

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14872

agcttataat atatcgatac gtcgatatt atatgtcgaa naactcttgac aaattcaaat 60

ggccataacg tttcacacgg atgttcgatt cgggcgcata atatgtcgag aggcctcaaaa 120

ttgaacaacg gaagctcttg agaaattcaa atggtcataa cttttcacac ggatgttcga 180

ttaacgcgca tcacatatag agacactcga tattgaacaa cgggaagatct tacgaaatta 240

aaatggtcac aacttttcaac actgatgtcc gattcagget tataatatat cgatacgtc 300

gaaattaaac atcggaagct ctcgagaaat tcaaatggtc ataacttttc acacggatgt 360

ccgattcgag cgcataatat gtccagagggc tcgaaattga acaacgggaag ctctngagaa 420

attcanatgg tcataacttt tcaca 445

<210> 14873

<211> 409

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14873

gtagatatac aagcaagaat gttcttttgg atcccgatta tctagctcat gctccagact 240  
tcggaacaga caagtttctt aatccagatt catcaattg gacctcttt gcaggaacct 300  
cgggatatgc tgcctcaggn taatttctt tctctatact atttgagtaa atcatgatat 360  
tntagtttgt cttcggtagc catttacana tatatataca tcacaatta 409

<210> 14874  
<211> 375  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14874

aaaacacaat ctctgtatgg gctaaagcaa tcccccaagc catggaacaa gagatttgat 60  
gacattatgg ctacatacc ggtccataga agtcaactatg aatacttgtg ttacttcaaa 120  
ttctcttcta aatctgagtt tgtgatattg ctatttatatg ccgatgatat aaattacatg 180  
gaagggatgc catatgatat atgctgangg ccactgatgt atgctatggt atgtactcgc 240  
cctgacatag ctcatgcact gagcttagta agtaggtcta tgggaaaatc aggcaaatga 300  
cattggcaag cccctgaatg gatactcaga tatatcagag gatcacttgg aagagctatt 360  
gtctatgctt tagct 375

<210> 14875  
<211> 369  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14875

gtttgtcatt tcaatttctc actattttaa atggatcatt tccaaggctc aacgccttat 60

aatgatcacc tettaaggtta aaaaagaate acttgataag caagaactac gttaggtotga 120  
 tttcttcate gcaattgtgg atacttagga gcaaaaagccc tgcttttgtc gaccaaccca 180  
 agagatcggtt aatgggtccaa tgccttaaty tttctctcct ctcanaaaaa caagagatcg 240  
 tttctctcct tttctctcct tttctctcct tttctctcct tttctctcct tttctctcct  
 tttctctcct tttctctcct tttctctcct tttctctcct tttctctcct tttctctcct  
 tttctctcct tttctctcct tttctctcct tttctctcct tttctctcct tttctctcct  
 tttctctcct tttctctcct tttctctcct tttctctcct tttctctcct tttctctcct

<210> 14876  
 <211> 463  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14876

agaatataac aatccanaat caattgtacc tttcaagtaa cgaagaaatt cttttggggc 60  
 ttttagatga ggagaggtag gagectccat aaagcgacac acaactccca ccgcataatg 120  
 aatategggc cttgtattgg ttagatacct taaactcccc acaagactct tgaagatcgt 180  
 gaagtcatac tttctctcct catcaaaact tgataacttc aagccacctt ccataagtggt 240  
 gttcaaggga ttgcaatcaa gcatattaaa ttaactcaac actttttttg tgtacctttc 300  
 ttgtgagaca aagataccat tctcgtttg cttcaacttc attcccaagt aatatgacat 360  
 gagtcacata tctgtcatat cagattcacg agacatggac tctttgaagt cttcanacaa 420  
 atttgggtta ttggccggaa agataatgca tccacataaa gac 463

<210> 14877  
 <211> 291  
 <212> DNA  
 <213> Glycine max  
 <400> 14877

atgcaatact agaactcagaa tatgcaacaa acactatacc taaatcagtg tccagaaaac 60  
 ttgaagaaaa taactttatc aagcacaaac ttcaagcctt attccatgta ttgtggggaa 120  
 gctatgaactg ggcataatggg ttgaggtgtt atagaggagc aggcattggc gaagggaact 180  
 ttgactgttg aataggacag gtggcttcta gactatgta ggttgcattg agaacgcaga 240  
 cggaaactctc tctgtatgct cgcattatat aaacaagcac actttttcac t 281

<210> 14878  
 <211> 372  
 <212> DNA  
 <213> Glycine max

gctnnnnga agtgtatngg gatggagagc ggcaacgctt ggggngngtg ttaatglang 120  
 aggyaagagt agtggcttat gcttcaagcc aattgcaccc tcatgaagtt aactatccga 180  
 cccatgactt ggaactagca gcggtgggtt ttgctttaaa gatttggaga ggcactatta 240  
 atttggtaact ggttttgaag ttttcagcga tcaaaagagc ctcaaatact tgttcgacca 300  
 gaaggaaactc aatatgagga aacaaagatg gatgaagttc ctcaaggatt atgattntgg 360  
 tcttccctac ca 372

<210> 14879  
 <211> 426  
 <212> DNA  
 <213> Glycine max

<400> 14879  
 agctgggtgg gagatatagc atcttgcgtt tgttagtttt tcaaaaatcg atgttctagt 60  
 aaaactgcag ctgttggcgg ctctgctgga ttgtttttaa agcagcacct caagaaatct 120  
 ttacctcag atgaaagtgt ttcatgtata ggaggggtct ccttcataac cttaaacaga 180  
 gctgcagcct gcataattag agaagatgtt tatttagcaa gataaaaaaa aaggaccggt 240  
 atacagatag catctctgcc taatccacaa gttgcaaaca gaaaaaagtt ggctaacaga 300  
 tgccttagct ggttgtaaat tgatgggtgc caaaataagt taaaagctga cacattatcc 360  
 tacattacca aacgttagaa tctcatatcc tcatagaagc agatataaac catgtctaat 420  
 aagaat 426

<210> 14880  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14880

ctactataat ngnagaacac tctttctctg tcattggagg tgcacattga gcttgacagat 60  
 cctttcaact cggggcatat tcttgaagg aatcagccc tttttttgca cgggtgctat 120  
 cctttcaact cggggcatat tcttgaagg aatcagccc tttttttgca cgggtgctat 180  
 cctttcaact cggggcatat tcttgaagg aatcagccc tttttttgca cgggtgctat 240  
 cctttcaact cggggcatat tcttgaagg aatcagccc tttttttgca cgggtgctat 300  
 anagtcogac acccttgaac 360

<112> 14881  
 <111> 485  
 <112> DNA  
 <113> Glycine max

<400> 14881  
 ctctggcatat tgagagccaa agaattatct ctctctgacc ttctgtcttg ctgaagtctt 60  
 tgttcatgaa ctctgagagt accaacaagt tcttcaaggg acataaaatc aagattcttt 120  
 agagccctta atgggtggtac ccatggtctc ttttttttag acaaacttct caagattttt 180  
 tccatctgat catagttatc ataagttctg cttagagata ttaattcatt aagaatgggt 240  
 tgaagcctc caaacatact ctgtatgctc tcgcttctt ctatagagaa gagttcatat 300  
 ttaagagtaa ggagacctag ttgtgtcctc ttacatgtg acgttcattc acgtgttata 360  
 gctaaagtgt ctacatctg gtttgcctc ttgaagctaa gtacttttgt gtatctttct 420  
 ctcat 485

<110> 14882  
 <111> 473  
 <112> DNA  
 <113> Glycine max

<223> unsure at all n locations  
 <400> 14882

gatgcacgaa tgcatacgaa atacatgtct taatataata tgggttaaaa gttaaattag 60  
 aaaaataaaa accatgttta acatagatca tgggttaatt gcttataat gttttcttac 120

aaaaaacyaat tegtactoca aaacattttt cttaaaaactt gggttacaag ggtcaactaa 180  
 tttttctcac caaatagaca tattatatta nagtagtate ttctgttatg attccatata 240  
 taataaatat ggacatgaga atttaaacat ttaaaactct cyccatcaca tgcctaatga 300  
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt

<210> 14883  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<23> insure at all n locations  
 <400> 14883

aatcaaaacy gaggtagtac cctctcatat acaggageta ctcttttctt tggcgagaaa 60  
 tcaacaaata cttggaatta gaaatggccc taccacatt acagatagcc taataacagc 120  
 caggaaggca gtgaaggeta tctcccttca tagacaccga agcaacgtgg ttogaactgt 180  
 gtgctttgac cctctgtctg atttaggcca cttegattca aagattaccg acatcctctc 240  
 agctctatgc tgaggtgaaa ggtatggaat ttcacatc ttcaacggtg acttgtagcc 300  
 tatactcagc aacgggttta tccaaatcca aaaggccttg gatattgcag aagctgnagc 360  
 aaagccacga acgttggatt tgcatatagn ttgttccctc a 401

<210> 14884  
 <211> 430  
 <212> DNA  
 <213> Glycine max

<400> 14834

taatagctaa gctcactctc ttgagatgag aagctagagc ttagctacac acccctata 60  
 atagctaagc tcacccccat gacaaaaaac atgaaaataa taacaaaaaa gtctctatta 120  
 caaagacaa tcacaaatgac ccgaaataca aggcataaac cctatactac tagaatggcc 180  
 aaaatadaag gcttagaaga aggaaaaaac tattcttaata ttacaaaaga taagcggggt 240  
 cataacthgc ccatgggctc gaaatctaac ctaaggctca tgagaacctt agggcctttc 300  
 ctttagctc taccaccaat tacttggagt cttctagcca atgcctctgc ggggtaggat 360



ggcatcattc cctccacctt ggaaagggat tgacctcaaa tcccgagggt cttcatactc 420  
 tgggctcctt 430

1 14886  
 2 14886  
 3 14886

4 14886

gttagagctt acctagtctt acttctctaa tagcaaaagt cacctcttg agatgagaag 440  
 cttagagctt gctacgacac cccgataata gcttagctca ctcccatgac aaaaaaatg 460  
 aaataataa aaaaaaagt cttattacaa agacaactca aaatgcctcg aaatacaagg 480  
 gtaatactct ataactactat aatggccaaa atacaaggcc tagaagaagg aaaaacttat 500  
 tataatattt acaaaagataa gggggctcat acttagctca tgggctcgaa atctacctca 520  
 aggtctatga gaaccttagg gcctctcctt ggatctctag cccaatctac ttggagtctt 540  
 cttagccaatg ccttggggg gtaagattgc atcattccct ccaccttgga aaggatttga 560  
 cctcaaatcc cgaagctctt catactct 580

<210> 14886  
 <211> 467  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14886

aagattctta aagaagctag agcttagctt catatacctc tataatagct aagctcacct 600  
 ccttgagatg agaagctaga gcttagctac acacccctta taatagctaa gctcaccccc 620  
 atganaaaaa acatgaaaat aataaaaaaa agtctcttat tacaagaca actcanaatg 640  
 ccccgaaata caaggctaaa acctatact actagaatgg ccaaaatata aggcctagac 660  
 gaaggaaaaa cctattctaa tatttacaaa gataagcggg ctcatactta gcccatgggc 680  
 tcgaaatcta ccttaaggct catgagaacc ctagggcctt tccctggatc cttagcccaa 700  
 tctacttggg gtctctctagc caatgcctct gggggttagg attgcacat tgcctccacc 720  
 ttggaaagga ttgacctca aatcccgagg gtcttcatac tctgggc 740

<210> 14887  
 <211> 462  
 <212> DNA  
 <213> Glycine max

cgcatcaaaa aaatctctct ctttatatca acatgggtcta tataaaaacv ttattcattt 120  
 taaaagattt ttctctctct tttcagcata cgtctggttg ttatacaaaa atttctctta 180  
 tatatactca ttgttcacac acaagaattt ctcttcacac attatttata cacaaaatct 240  
 ttctatagac tttttatata caaaaactct ttctctctct ttatatagat atatgacatt 300  
 ttgttcacaa cgtctctctt ttttctatt ctggggggtta tcatgatgtt ttgtctgtnt 360  
 atttaggat gactgtctta aatgaaaact ctacacgggt ccagaatttc aacaaacatt 420  
 atcgacaata acgaagtaac actaatgaac agtcacaaata aa 462

<210> 14888  
 <211> 457  
 <212> DNA  
 <213> Glycine max

<400> 14888  
 ttggtcaaac atgaaccatg tcataccagg ctgttcaatt tatatttgaa taaaatatcc 60  
 ttttaaatac ccattacaca acaaacaggt ggattcaaaa atcaaaggca ttgaattgaa 120  
 tgaaccacac aaagccacaa gagaaaaaga aatgacattt ttgcacaaac caattgaaaa 180  
 tcttaccaac ccagaaaaga ccaatcggga aaagggatgt caaagtgttc ctgtgtggtg 240  
 caataccgaa atagaggcaa aggcattgct ttgtgttcag tcttattaac agaaggttta 300  
 tccatgcaat caaacatcat atccacatct ggcaccatcc cagggtacct cctcataagc 360  
 tgcacaaacc cccacagtgt aaacattgac ctactctgca cacaagcata gtaccaatcc 420  
 acaaacacct tcccttcaac aatcaccact ctgaacg 457

<210> 14889  
 <211> 346  
 <212> DNA  
 <213> Glycine max



acttctcctt ctatattctt ctgactgtaa ggatataaaa tgccaagatc caatgttctt 240  
ttcacatacc tt 252

<223> unsure at all n locations  
<400> 14892

agctnggaag gtagtcatac ctcacaaagt atatatatgt atgattgggt agtgaatata 60  
ccaaagatat gcatgtatgt aaacaaaaat acttcacaaa atatatatat atatgtatgt 120  
ttagatatgc atgcatgtag gaaaaatact tcacaaaata tatatatgta tgttttaggta 180  
gcaagatacc tgggatatgc atgtatatag caaaaaatata tcacanaaca tatatatgta 240  
tgttttaggta gcaagataca ttggacaagc atgtatatag caaaaataact cacaaaaata 300  
taagtatgtt taggtagcaa attacctcat gaaaaaaaaag agcaaaaaga gagtgaagcaa 360  
gaaaggaa 368

<210> 14893  
<211> 409  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14893

agcttcaaaa aatggcctca tcaactctt attccctgaa tgaaattcaa taaatacgcc 60  
tcttatattt aatggagagg gttaccacta ctggaaaacc cgaatgcaaa ttttcaactga 120  
ggcaatagac ttaaactttt gggaagccat agaagttgga ccttatatac ccaccatggt 180  
ggctggaaat acaataatag agaaacctat agaagagtgg tctgaagatg atagaagatt 240  
agtgcagtae aattttaaagg ctaanaacat cattacttat gccctangaa tggatgaata 300  
ttttacgggtt tcaaatgta agagtgttaa ggatatgtgg gaactgatgtg tcattatttt 360  
ctcctattat cttaacctt ttgtacccaa ttttaattact gattaactc 409

<210> 14894  
<211> 409

```
<P12>      DNA
<P13>      Glycine max
```

[illegible]

```

>C11>      14895
>C11>      371
>C11>      DNA
>C13>      Glycine max

```

<400>	14395	
tgatgcagct	gagtttgtat	cttctctcatg cactctctcta atgaatataa catcatttct 60
ggcgctaaac	tgctgggagt	tggaagccat cttctcaatt aaatgtctag ctccaataag 120
agtcatgtct	tccagggctc	caccactggc agcatctatc atactttctct ccatattact 180
gagtccttca	tcaaaatatt	ggagaagaag ctgctctgaa atctgatggt gagggcaact 240
agcacatagt	tttttaaate	tctcccagta ttcatacagg ctctctccac tgagttttct 300
aatacctaag	ctatccttcc	tgatggctgt ggtcttggaa gcaaggaaaa tgctttctaa 360
gaatactctc	t	371

GL15	14896
GL15	431
GL15	DNA
GL15	Glycine max

```

<123>      unsure at all n locations
<400>      14896

```

agccttcaag aathaagatc attattcatt ctagaatcac gagaagactt actctagatc 60  
agtahtaaca agcctttttc aaaaactgag tagcacatga atcttttcca aaacctctta 120

ccaaagaagt tttactctct ggtaatcgat taccacatta ttgtaatoga ctaccagtao 180  
 caaaataatt ttacatatc ttccaactga atttacaatg ttccaattga ttccaacatg 240  
 ttctaattctg atacaagtgt ttggtaatcg attaccagtg tgtttgaagc tcgaaattca 300

taggttttaa 431

<210> 14397  
 <211> 439  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14397

aaagccagtg caacttctct agaaaaccaca tcttaatttc aagtcacaatt tagagaaaat 60  
 tgttagctctt ccaatttcat cggacaactc tacaatcacc agaattggaa aattgctagg 120  
 aagggttaata ttgggttaaag tactatagtc aaaacagaat ctccaccctc gtccctcttc 180  
 accaaaacaa taggaatgac aaagggaactt acacgtggtc taatgatgac tgtcatcaac 240  
 atctcattga ctacttttca atctctgctt ttgggtaatg gggatattta catggcctta 300  
 tatttgggaat ttgagcatct gctttcagca ctattgcatt atattgtctc ctatgtgaag 360  
 gcagactntg agggccctan aagatgtctt gatattttat taaatcaccg tatatgaatg 420  
 tngcaacttc aatctctat 439

<210> 14398  
 <211> 491  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14398

agcttgagca gaacttanaa actntgaata ggaagctcat tctgtgggtc acacatatca 60  
 tctcttnaaa ctaataacca caccaccaca ctccaattcc acttncactt cgtaccccat 120  
 tgcacagagg ctcttacta tgtgaaggtc tggngaaggc atattgtacy cagccttact 180  
 cttgcataat caaagaguct gtttcgggat tcgaaccat gacaaacaag tcaccaaguc 240

acaattttac cgtctgcacca gggctcgcgc tcaccaatac accaccactg aacaaaaaan 300  
aatgcaacat aatccaccac tttactttca tcaattgtga gagaatgtgt cgcgaatctt 360  
ccaaaaccac ttaaagtana gcacagatg atcaactact atcatnttca tcaattataa 420

<210> 14899  
<211> 292  
<212> DNA  
<213> Glycine max

<400> 14899  
cttgaattgg tccagagctt ccttgcttaag ttccagagct ctccatatat tatgtgtctg 60  
aatccgacat ccgagtgaaa agtatgaca attttaattt ctccagaaat tccattatto 120  
aattccagagc gctctatat atcatgggac tcaatccaac acccatgtca aaagtattgg 180  
ccgtctgaat tgaccagagc tttcttgttt aattccagagc tccagaatat tatgtgcttg 240  
aatccgacat tccaggaaaa gttatgaca ttccgaattct ctccattcca tt 292

<210> 14900  
<211> 443  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14900

tcacatagtc cgccttttgt tgacctctt tattctttaa aacagaaaaa ttatgcatat 60  
gcaaaagatc aagaggagtt agtatgttaa aacctctctc cattctctaa ggagagcaat 120  
tactattgtc atgaacaact ctattggtag caaactcaac atggtgttaa caggtctccc 180  
aangttttaa agttctcttc taaactgtca taagcaaaagt tcccaatgtc ctattaacaa 240  
cttctcgttt gcccatcggt ttgtgggtga caagtgggtg aaaataacaa ttantgtccc 300  
aaattgcccc gcacatgctt ccataaatgg cttaggaact taaagtcctt atcaactaac 360  
atgctccttc gcanaccatg gagtctcaca atctccttga aaacaaatca ccacatggga 420  
agcatcctca actttttac atg 443





caogaatntg ctaagagttc tttggatcaa aaagytotta tctctttaaa aagcacaatc 120  
 gtcttatcct cttacanatt ccttggccaa attacttgtg attcaataag gaattatttg 180  
 agtgcacaaa ttgttcaatc tctctctctc aagagagata tcttctcttc ttcttcttca 240

<210> 14714  
 <211> 321  
 <212> DNA  
 <213> Glycine max

<233> Insure at all n locations  
 <400> 14904

ctctagtgtt agtntgtcct aaccgaggg aacctcttga ggtgtattgt tatgcacaa 60  
 agatgggttt aggaggagtg ttgatgcata atggccaagt agtggcatat gcttctagaa 120  
 aactcaagac tcatgagagg aattatccca ctcatgaact ggaattagct gttgtggctn 180  
 ttgcacctaa gatgtggagg cattacttgt ttagctccaa gtttgagggg tttagtgtc 240  
 ataagagcct taagtacttg tttagtcaga aatagctgaa catgogtcag aggagatgg 300  
 taaagtctct taaagattat g 321

<210> 14905  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<400> 14905

cttgattaat tctccacaat ggcaagctga gaggtcttgt ccttcccaat atgtccttga 60  
 aacatggcaa taccatgccc ttgtctctga aaagagtttg cagccctgoc gggaacatc 120  
 ccatgcaact ctgtggaggg tacaacatta agattgtctg gcttagcccc gtatagtgt 180  
 gcagaacttg ctgtctcttg ccagaatgaa tctatctctg caatttcttg gtgacacaat 240  
 atattgctag caatgtagca gtgggtttga cactctcttg gcctgagctg gttaaaaaga 300  
 agatggggaa gctgtaatct aaggagagaa gtgattaatc aggaattcaa tctcacattg 360  
 tttcaaaatc ataatctaa aaagggggaa agtaccgcta ttgttcaga tctca 415

<210> 14906  
 <211> 517  
 <212> DNA  
 <213> Glycine max

<400> 14906

ttcatattgt ttgttccacc atgaancccc ccagatgtcc aggagcaca catatttcta 180  
 aaggcctttc ctcattcttt agagggagtg gcaaaggact ggcctttatta ccttgcctca 240  
 ttgtccatca ctagctggga cgaactcaag agagtattct tagaaaaaat ttcccttgc 300  
 tccaagacta cgaaccatcag aaaggatatt tcaggtatta gacaactcag tggagagago 360  
 ctatatgaat actgggatag atttaaaaaa ttatgagtag ttccagcaa caggtacaat 420  
 cccgggtgga ggaatcatcc caactttaga tggtcgaatc cttcacaaca atagcagcag 480  
 caacaacctt tattttcaaa atgctgctgc cccaagc 517

<210> 14907  
 <211> 244  
 <212> DNA  
 <213> Glycine max

<400> 14907

agcttatatg tttttcacia attgggcacg ggcattgttc tttaacatta tatcacttca 60  
 aaaattaata tgcctggaaat tcgttgatgg aataaaatac cattgcatgc aacttgatgg 120  
 tctgttgggtg gtaacctccc aaaacgccc aacttgctctt ccccaacttt cttaaatttt 180  
 taaccaaggg aattaaatta tcatcaatgt tatttccttg atgtcttgga cctgaaatta 240  
 tcat 244

<210> 14908  
 <211> 503  
 <212> DNA  
 <213> Glycine max

<400> 14908

agcttctaaa gtagtataat gaagttggct ttatgagga gtaataatct gacctccaat 60

actaaatgcc gattcagaag ctacagggga gatcggaata gctaacacac ccccttgcaat 120  
 tggctttagt gttggatact ttaactcatt caatttccac cacattaaaa tatcaaaatc 180  
 tgaacttctt ggcaaaactt cttctcttaa gtaatgatct aactctgttt tcatagttaa 240  
 gttttttt gttttttt tttttttt tttttttt tttttttt tttttttt  
 tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt  
 tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt  
 aatgggataa attgattcaa agtaaaactc aagcaactcc atttctgata ttggatctaa 480  
 aacaatagca acttccatga tcacatgaat tacactccca taaaaatcaa atttttgtaa 540  
 cacttttttt ggcttatatt ga 562

<210> 14909  
 <211> 530  
 <212> DNA  
 <213> Glycine max

<400> 14909  
 attacattaa aatactaacc atattatatt aattatattt ttaaataat taaaggtaac 60  
 caaattaatt attttcttat taacggaaat ctatattatc ataataatatt aaaatattaa 120  
 cgtaaaggcg tttctttttt aactataact cgacttagtg gacacaagta ataatcacc 180  
 actataagtc cgacaagata aatatttttt tctgtgtccat gcagttgect attaatgtga 240  
 cattcataaa acttacaatt acttttttct taatataacc atattaaaat attaacgtac 300  
 attaatatat taaatatatt atcataatat tcaaatttac taacataatt acgttaaaca 360  
 taagtataaa ttatattaac ataaacataa ttaatatata tatatatata tataatagac 420  
 atataaaata cataacataa atgtgtttata tttattaata taaaataata acaatattat 480  
 gaaactatc attaaataaa tataatatgt gtattaacga ataaaaattt 530

<210> 14910  
 <211> 634  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14910

agcttattga atatccagca ataacacact gtatatgtga agagattgca cactttattc 60

aatcatatga aatgaattt tataagcctt acagacttga ctctcaaaac agaataacaa 120  
 taataacaaa aaccacaaaa ctgcatgacg cataaaatag gattgtttat tgacacatta 180  
 aaataactaa tattaatttg tatthtaatt ctcttttaatt cactatagtt tgaaattgat 240

ttatataa ttaattatga atacttctt aaatgttttg tagttatga taattgatga 4  
 tattactcat attttgatgg gaagaactaa aatgaaaatc aaatataaag tatagggaact 480  
 aaaaaggcca ctctcaaaact atagtgaact aaagaaaatt aaaatgaaa tgataaggac 540  
 taataaatca ttttcaaaact acagagacta aaagagaatt gaaatgtgaa ctcttataact 600  
 taataaatta ctctttaaact ataatgacta aaag 664

<210> 14911  
 <211> 488  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14911

atcatcaatc acctagctga ccaatttttg aggaatttgt ggcttcccat aatggataca 60  
 aatacaaggg atcacattca caaacaccat tcaaatatgg aaacgttact gatatttcta 120  
 ctgcagtggg ttggaggcaa aatggagctg ttactgcagt caaggaccaaa ggccaatgtg 180  
 gtaatcaagt aacagagaac ttttatttat ttttttatca gcaggaatca aaaacaggta 240  
 ccaggggagtt tacaataact cagctacctt gctcaatcat ctgagctaga ccacctggat 300  
 taacacaaaag aaaatgaacc cttnattaaa gtgatactat tttcttttgt atatataatt 360  
 gtcattgatgg catraattaa aattgggtta tttgtaaatg aattaacacag gtaactgctg 420  
 ggcattttta acagtttctg caacaaaaag tatctaccac ataaagacag gtatgctaatt 480  
 gttcccttt 488

<210> 14912  
 <211> 490  
 <212> DNA  
 <213> Glycine max

<400> 14912

agcttcgggtt atcaatttcg agtgtctctt ttttattacg aggcttaac agacatccga 60  
gtaaaaagtt atgttcgggtt gaatttgcaa cgaccatcaa cattcaattt cgaagctctc 120  
atattttt tttttttt tttttttt tttttttt tttttttt tttttttt  
tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt  
tttttttt tttttttt tttttttt tttttttt tttttttt tttttttt  
gtatattta cctgaactgga acaaacatgc gagttaaaaa gtaatggcgt ttcaatttgc 240  
tcccaacttt caatattcaat ttccatcgtc 340

<210> 14913

<211> 379

<212> DNA

<213> Glycine max

<400> 14913

ataaattaat gactatttta gtttagtaac cctaaaccct aattagtcac gtaaccataa 60  
atactaatta gccacataac cctaaccctt aattagtcac gtaagacaaa atcataatta 120  
gtcaagtaac acaaaaccct cattagtcac gtaaccctag acccccatta gtcaaataac 180  
tctgtcaca aaacactaaa acataaataa ttatataatg ggtgatgttt gtttctaatt 240  
tatttttoga cagtcaatac ttaagtcaaa aaataaatat acaacgttca ataaacacac 300  
ttattatcat atacatgaca ccccataagg gactaaggtc atcttcccta ataacaagcc 360  
tattcaacct cgtaatg 378

<210> 14914

<211> 356

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14914

tacatcttct tagttgcatt ntcaccttat cagaagagac tctgaaaagt taagatacaa 60  
ctcaaatgc tgtcaattga atatgtaaca atcaccacga ttgcatgcct gatgcaaaagg 120  
atgagatctt ttgtccagtc caatccatat taaaattcaa gtaagacaaac aactagtgtt 180  
agtaatttac tctgcagaga atggtattat actaacatac atgtgtttgg ctttgtgcac 240

taatttttgt gttgatgact ccagggacct tggtgaggta gttcaaagag cgaacaacac 300  
 acgttaacggg cttgcggcag gagtgttcac aaagaacatg gacactgcac acactt 356

<438> unsure at all n locations  
 <439> 14915

tcaggttttc gccttcgata aagaaggact caatcgactt cattggagat ttcggttttg 60  
 tcagaggagg tcaaaagaagg gcatgagaaa agcgagagtt ctctcggaac ggtgtcgttt 120  
 gatctgcaag aggtgcctaa aagagttcct ccggatagtc ctttggctcc gcagtggtae 180  
 attctogaat ccgaaacctc gcgggcaaat gacgtcatgc ccgcggtttg gatcgggact 240  
 cangcgcagc aggcctttca ngaggcttg cagtcgatt ccgcgggctt gatccggag 300  
 acaagagcta aagtgtatct ttctcccaag ctctgggtat cttagactaac ggtcatccaa 360  
 acc 363

<210> 14916  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14916

catgcaagct caatggccat ggtgattgag aaggagttta cattatggga ttccanatca 60  
 tgcctctatt ntgcctttta gacatgaetc ttgcttcaat aacatgggtt gctagtcttg 120  
 taaccaccaa cctagtacca ttgcataacc cttgtgattg atacatgttc cttaaaagca 180  
 ttattggggg acccaccttt agttttatct tatgattagc aagaccaaatt gttctcaaac 240  
 tattgagaaa ttcacttctg accacttcaa gtgcatttca ttcaaccatt tttgacttgt 300  
 caattgaata agaacttaga tattcccttt gatcactga aaacaattca ttaataaaaa 360  
 cattgtagaa tcaatattaa ttattaaatc aattgattta tttgtgagat accgggaata 420  
 a 481

<210> 14917  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14917

atcggtatg tttttatct tttttatct tttttatct tttttatct tttttatct 60  
 tttttatct tttttatct tttttatct tttttatct tttttatct tttttatct 120  
 tttttatct tttttatct tttttatct tttttatct tttttatct tttttatct 180  
 tttttatct tttttatct tttttatct tttttatct tttttatct tttttatct 240  
 tttttatct tttttatct tttttatct tttttatct tttttatct tttttatct 300  
 tttttatct tttttatct tttttatct tttttatct tttttatct tttttatct 360  
 tttttatct tttttatct tttttatct tttttatct tttttatct tttttatct 420  
 tttttatct tttttatct tttttatct tttttatct tttttatct tttttatct 440

<210> 14918  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14918

atcggtatg tttttatct tttttatct tttttatct tttttatct tttttatct 60  
 tttttatct tttttatct tttttatct tttttatct tttttatct tttttatct 120  
 tttttatct tttttatct tttttatct tttttatct tttttatct tttttatct 180  
 tttttatct tttttatct tttttatct tttttatct tttttatct tttttatct 240  
 tttttatct tttttatct tttttatct tttttatct tttttatct tttttatct 300  
 tttttatct tttttatct tttttatct tttttatct tttttatct tttttatct 360  
 tttttatct tttttatct tttttatct tttttatct tttttatct tttttatct 419

<210> 14919  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 14919

agcttggtaca ttcaatttcg agcgttcoga ttattacggg actcattctg acatccgagt 60

aaaaagtaat tgggtggtga atttgttcag agcttcaaca ttcaatttcg agcttttcga 100

tatatttcg ttttttcg ttttttcg ttttttcg ttttttcg ttttttcg 140

tttttttcg ttttttcg ttttttcg ttttttcg ttttttcg ttttttcg 180

tttttttcg ttttttcg ttttttcg ttttttcg ttttttcg ttttttcg 220

tatatattac gggactcaat cacacattcc agtaaaaagt tattgtcgtt taatttgggt 300

tcagagcttct acattcaatt tcgagctttt cgtatatatta cgggactcaa tcagacatcc 400

agtaaaaaa 429

<210> 14920

<211> 291

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14920

ttctttgaat cggaccttag tgtgaaaagt ttgatcatt tgaatttctc gaaagcttcc 60

ggtgggtcaat gacgagcacc tcgacatatt atgcgctcga atcgaaacac cgagtganaa 120

gatatgacca tatgagtttc tcgagagcct ccgtgggtca attccgagca tcttgactta 180

ttatgtgccc gaattctgacc ttctgtgtaa aaggtatgac catttgaatn tctcgagagc 240

tctcgattgt taatttctag cgtctcaata tattgtaagc ctgaatcgga g 291

<210> 14921

<211> 261

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14921

gacatgatca tccgaatcga cgcacgttcg tctcgtccca catcaggact cttagcaatg 60

gccccaaaga ttggcggcac aaacggcgcg acgctcccat tgtgtttctg caccaaactcc 120

agcaaggcaa ctatatcaaa ctccggaatg atcaaaaacg cagcttcaac tcgaaggcaa 180

cacagcnaaa cagagttgag cgaataaatg tggaaatgtg gcagaacaca cactaccaca 240



tcgtcgctgc gaaagtacaa a

261

<210> 14922  
<211> 235  
<212> DNA  
<213> Glycine max

tccttaagttc ttcctaagta cctaagttatg gctctaagca cttcttaatg ttcctcaaca  
aggtntcttc gatctcgaca agttacacct agtgcataag cgacatcagg acgtgtacaa 100  
gtcattggtgt acaatgataga tcccaactaca ctatgcataatg gtaactctact caatgtgtctc 180  
cttctcttcag aagttgttggg acaattcttc ctactaagag caattccaac acctc 235

<210> 14923  
<211> 324  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14923

atgctacatt catatnccag acgtgaagag gcacaagctt gaagataaga ctatacgagg 60  
tattcttcctt gggtatagca atatctctaa gggctaccgt gtctacaact tgcaaaactaa 120  
gaaactcgtc atcagtcgag atgttggaagt taatgagtat gcttcttgca attgggatga 180  
agaaaaagtg gagaagaatg ttcttatacc cgctcaacta cctcaagaag aagctgatct 240  
agaagaccca ggtgaaccac ctccaccttc accacaacaa caagatcaag aactatcctc 300  
accagagtct actccaagac gagt 324

<210> 14924  
<211> 360  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14924

acctagaatc tgagaataac aacacacatc atcttctctga gcacatcgaa ctngtcaatc 60  
ttcaaaagcct tggtcataat atctgctacc tgcgaagtctg tcttacagtg ccttcaaatc 120  
aatttgtctt tgttcaactg atctctcagg aagtggaacc tagttctctat ggtgttactt 180

ctgcaatgtg agaactggatt tttggccaaa tctatagcag atntgttttc caaccaacagc 240  
 cccacagtcg cactcatctt cacattcaat tctccagca agtgtgtaat ccaattgggc 300  
 tgacaagcag cactacaagc agaaatatat tgggtttcac atgtggaaag agcaatcagc 360

<213> Glycine max

<223> unsure at all n locations

<400> 14925

aaaagagagc tggaaaattt caagtgggtt gcttgaggac tggacgtana caennggaagt 60  
 ggcgaaccca ctataaatca agtgtgcatt cctctctctc ttaaacttct attatttatt 120  
 gctaintatc tctgtctgta gagacgttta ttttgaattg tcttttgagt aattcatgtt 180  
 aatgtgtgat tgcnaatcca aaaagagaga gtagacgttt aattggcgaa tagtcttttg 240  
 tatttaatte aacccccccg cctctcttaa gataactgag gccatttgtc caacatccta 300  
 tctttgataa ctcacttctc tctaaaaaga caaactttcc ggaatgataa aatgatgtca 360  
 aatgaact 363

<210> 14926

<211> 228

<212> DNA

<213> Glycine max

<400> 14926

atgagcaact cagatttcaa cagatgtgac atggaccatt gctgctacgt taagaaatat 60  
 gctaatagct atgttatcct tgtcgtgtat gttgatgaca tgttgattgc aagatctagt 120  
 atgacagaaa ttaacatgtt tgaacagtag ttggcagaaa actttgaaat gaaggatctt 180  
 ggtctagcta aacaaatcct tggtaggaga attcttagaa acagatca 228

<210> 14927

<211> 335

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14927

tagatatgcn aaaggcacac actgatttgg aataagatac cattatgcta aaaacttcag 60  
 aettcatggn tattctgata gttgatgggc tggatgtgct gatgatatga gaagtacott 120  
 caggtatctt tntagctntg gttctagaat tntctcatgg tattcaaaga aacaggaagt 180

attctggtt aatcaggtg caatctcaac ttcaa

<210> 14908  
 <211> 205  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14913

taacccgaga gaacccctctg aggcgtattg cgatgcatac aagatggggt taggaggagt 60  
 gttgatgcac aatggccaag tagtggccta tgcttctaga caacttaaga ctcatgagac 120  
 ggaatatccc aacctgatac tggagntggc tgcctgtgggt ttgcccttaa gatgtgaggc 180  
 actacctgtt tggctcacag ttgag 205

<210> 14929  
 <211> 229  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14939

tgcacaccat ggatttggcg gaagacacaa tgctcagtat ttgcnctat ttacacctcc 60  
 tctctgaaca aggcattac gaaatgcata gttcacatct aactgggtgaa gagactaacc 120  
 ataggcgaga gccacagaga gaagaagtct cactgctatg ggcttgatga caggtgagaa 180  
 attctcagtg taactgttc catattgctg atgaaatacc ttagctacc 229

<210> 14930  
 <211> 384  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 14930

tgatggggac ctggttgaaa attcagaggt ggatgatgat tgcattggtt cccagatct 60  
gttataaagt gttagtgtgc ctacatatcc actggaaaat tttgaaggtc gtgcgtttctg 120  
tgcgttttctg tttgttttctg tttgttttctg tttgttttctg tttgttttctg 180  
tgcgttttctg tttgttttctg tttgttttctg tttgttttctg tttgttttctg 240  
tgcgttttctg tttgttttctg tttgttttctg tttgttttctg tttgttttctg 300  
tgcgttttctg tttgttttctg tttgttttctg tttgttttctg tttgttttctg 360  
attagggtta gaaccttggg catc 384

<210> 14931

<211> 399

<212> DNA

<213> Glycine max

<225> unsure at all n locations

<400> 14931

tgaagtcage tatgaccact actctgtgcc ttgccctgcc ggacttcagt atcccattta 60  
ccgtcgagac tyacgcctct ggctccggca tgggtgtagt cctcatgcag aggggacatc 120  
ccctggcttt cttcagcaag caattttgcc caaaattgct ccgtccatcc acgtaaatcc 180  
gagaattaca tyccatcacc actgccgtca agaagtggag gcaatacctc ctgagtcaca 240  
ccttcattat tctgacggac cacaagagtc tcanggaatt gatgactcag ccggtgcaga 300  
ccccagagca acacgtgtat ctagccaagc tcctcggcta cgattacact atacaataca 360  
aagccggtca caataacgcc gtggcagatg ccttatctc 399

<210> 14932

<211> 393

<212> DNA

<213> Glycine max

<400> 14932

tattagaccg attgaattgt gagagtgaga tttttctgag agaagttttt aaaatgttta 60  
tgagagaaat aaaaaatatg accatgaact cggaaagaac tttattgtta ttatatTTTT 120  
tattataaat ataaataaaa tacgcaattg aaaataatgt tagatttcat tgaatgggta 180  
aacaaatctt taaaatgatt atgtttgttc caatatTTAA aaagatttga tttcrataaa 240

gtatcaatac atttattaca ataatacagag gggttttcttt tcacaagaat tggaatgtat 300  
gatgagtaat ttttctcttt agttcacggg acttggtata ttgcaactaa atctatctta 360  
ctaactctat tattgtcttt tgtttattac tag 393

<210> DNA  
<211> Glycine max

<400> 14933

tgagctctcc acaaatctct gaatgtgacc tgttataaaa ttgtttgaca cgtctataac 60  
ctccaaagag ctgcttgctc tgtcatttat gattgttgat agtgaaccca ccagcagatt 120  
atcatgcaaa tctatggaag acagttctgt ttgtaatttg atttcagaaa tgtcaaacct 180  
cagctgggtt ttgagagct tgacctcttg caagctggac atgtttgtga agaaatttga 240  
aataccatcc accagatagt tatctgatag gtcaatagag ctgagagagt caggtctctg 300  
gaagtggtga agatctctcc tcaatttga cccagctaga tggacatctt taagctgctt 360  
gctctctgac 370

<210> 14934  
<211> 389  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14934

atcaattact actgaattcc ttaattcatt gaacacatnc ggntngocaa ctcatcttat 60  
caaaactaaa attggaagth ctaataatgt gntaaggaac ctcgacccaa atcaaggtct 120  
atgtaatggt actagattag ttgtaacaaa gatggcaaaa catgtaattg cagctgaaat 180  
tatchcaagt aaaaacattg gtctcgttgg ttatattcca agaattgtca tgtccctttc 240  
acaatcaccg ttggcccgta aactattaag aagataatth ctgattatgc tatcttatng 300  
caatgacaat aacaagtcac agggacaatc actatnncat ggtggactnn tattgcggaa 360  
accatattcc actcatggcc aatttatatg 389

<210> 14935

<211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14935

atgaattaca tttcaactgcc tggctcaga atgattatc ctgagagcag cataactctg 120  
 ctgcatggca gaaacccaat tgyaatctgc caaggcctgg ttgacattnt taggttcagt 240  
 ggggtttaa aaaagagaag gatgaaatcc aaactttgac cctgtttgca tagggtgttg 300  
 ttagaaggtc taggaggaga ctcataatnt gagtgtgtag aattagagga agtgyaagag 360  
 gaacintgaa gaagatgata ccagaaccta tctt 394

<210> 14936  
 <211> 394  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14936

gtgagcaaat tcaaacgttc attatacctt ngactttgga tgtccgattg tgtcccgcag 60  
 natatcgaga cgcgtcgaaat tgaaaaggga agctcttaga aaaatcaaac gacaataact 120  
 ttttaactcgg atgtcggata gagcccggtt aaataccgag acgctcgaaa ttgaaaacag 180  
 aagcttttgag catattcaaa cgacaataac ttttgactcg gatgtccgat tgtgtcccg 240  
 agtatatcga gacgctcgta attgaaaaca gaagctttga gccaatccaa acgacaataa 300  
 ctcttatctc ggggtgtccga ttgtgtcccg tacttatatc agacgctcga aattgataac 360  
 tgaagctctg aggaaaatca aacg 384

<210> 14937  
 <211> 467  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14937

agcttatatt gatttctttg aacctatct ttaacttttt tcataccccc aacaagaaag 60

[illegible]

```

<210>      14939
<211>      358
<212>      DNA
<213>      Glycine max

<423>      unsure at all n locations
<400>      14939

caagcttgaa tngngtgtca ttgttgtgac aatgcttatt ggaggccata cctgcataatg    60
aggcgtttct agttgaactt ctccacctcg ctccattgtga tttctcgcaa tggctcttggc    120
tcgatccact tggtgaaqta gttgatagcg actagtaaat atttgaactgc tcacgattca    180
acaattgtcc taqtatgttc attccccata tggcgaaggg ctaaggggaa ctccgggtgt    240

```

ggagattgtc aggagaggtg cggggaatgt cagogaattc ctggcactgt ctacacttct 300  
 ttgtgaagtg gatggcggtta gccatgagtg ttggctaata gtagcttgcg ttcacac 358

<200> unsure at all 11 locations  
 <210> 14940

attctactat ctttaacattt cacttggaag tccgattgag tcccgaaata tatcgagagc 60  
 ctcgaaattt aaaacccgaag ctactagcaa attcgaacaa caataacatt tcaatccgaa 120  
 gtctgattga gtcccgtaat atatacggga cgttagaaat ttaaaaacga agatcgtagc 180  
 aaatttgaac gacaataact ttccagtcag aagctctgatt gagtcgagta atatatcgag 240  
 atgctcgaaa tttaaaaccc aaacttgaag catattcgaa caacaataac atttcactcg 300  
 gaagtcgat tgagtcctgt aatatattcg agacgctaga atttaaaacc gaagctcgta 360  
 caaattcgaa cga 373

<210> 14941  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<400> 14941  
 gcttaacacc ttgcaagttc tccatatttt caatgtatta atagttgctg aaccttgtct 60  
 ttatctctct ctaactacag gcaaaatttt cctgaaatcc ctacccaaaa tcacaacctt 120  
 tccacccgaat gggttatgga tgcctatctt aaattgaaat cccattaggt ctaaggtgcg 180  
 atcaaacact tcaaaagcaa acttggtcat catgggcgct tcatcccaaa tgattagttt 240  
 agcttctata agtagttttg ctcaattggt gccttggttg atattgcaag ttaaatcctt 300  
 attgataacc aatggaagac aaaaggtgga atgagatggt ttatctccag gtaatagcaa 360  
 agaagcaatt ccacttgaag caacattaag gacaatg 397

<210> 14942  
 <211> 379  
 <212> DNA



<213> Glycine max

<223> unsure at all n locations

<400> 14942

tgcaaaaagnc attcaaaaacc gnnccaattt tcaacgcctt aaacggctct ctttgccttt 60

ttttgtcga ccaacccaag aggttcgtta ttgtccaarg ccttaacggt tttctctttt 120

caaaaaacaaa agatcgtctaa ttgtccaacg ccttaacggt tttctctctt caaaaaaaca 300

agatatacctt aatgggtctaa tgccttaacg tttctctctt ttcaaaatca aaacatcggt 360

tcaaggggcca acaccttaa 379

<210> 14943

<211> 369

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14943

agcttgaatg ctctatttcaa tggagttgac aagaatatct tagactgatt tacacatgna 60

cagngggccaa ggatgcctgg gagatcctga aaaccactca tgaaggaacc tncgaagtga 120

agatgtccag attgcaacta ttggccacaa aattcgaaaa tctgaagatg aaggaggaag 180

agtgtattca tgacttccac atgaacattc ttgaaattgc caatgctcgc actgccttgg 240

gagaaaggat gacagatgac aactgggtga gaaagatcct cagatccttt gctaagagat 300

tngacatgaa agtcacttga atagaggagg cccaagacat ttgcaacatg agagtggatg 360

aactcattg 369

<210> 14944

<211> 390

<212> DNA

<213> Glycine max

<400> 14944

agaggagtgt tgatcacaaa cccatcatat caetttaggtg caacaattca acgcacgggt 60

ctggaggagc ttcttgaactc ttgtactcgc aagaacatac aacttgcctc agatgaaatc 120

tactcaggt cgggtgttttc ctctctcgaa ttctgtgagt tagcagaaat cctcgaagct 180  
 cgccaatata agaacgcaga gaggggttcac attgtttata gectctccaa agaccttggt 240  
 cctcttggtt tcagagttgg aactacttat tcatacaatg ataaggttgt gaccacagcg 300  
 cctctctctc cctctctctctc cctctctctc cctctctctc cctctctctc cctctctctc

<210> 14945  
 <211> 365  
 <212> DNA  
 <213> Glycine max

<210> insure at all n locations  
 <400> 14945

cggacagac cattcagtcg ttggaggacc ttttaagagc atgtgtctta cagcacaagg 60  
 aaagctggga gagtntctct ccattgatag agttcactta taacaacagt ttccattcta 120  
 ccattggcat ggctccctat gaagctttgt atggcagaag gtytagaaca tccctatgtt 180  
 ggtrtagagc cggagaaggc ctaccttan gaccagaagt ggtacaacan accactgaga 240  
 aaattaagtt aattcacgat aggatgagaa ctgctcagag taggcagaaa aagtatcatg 300  
 ataagaggag gaaagatctg gaattcgagg gtggtgatca tgtattcttg agagtcactc 360  
 catgg 365

<210> 14946  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<400> 14946

tatgtgtcaa atatttacia tatacctctt cattctcagc agcaaaatca accacagcag 60  
 aacaattatg acctctccag caatagatac aaccttggat ggaggaaatca ccttaacctc 120  
 agatggtyga gcectcagca acaacaacag gagectgtct ctctcttcca aaatgctgtc 180  
 ggcccaagca aacctatgat tctctaccca atcccaacaac aqcgacaacc gtagaaacaa 240  
 ccaacagttg aggcctctcc acaaccttcc ctctgaagaac ttgtgaggca aatgactatg 300  
 cagaacatgc agtttcagca agagaccaga gectccatcc agagcttaac caatcagatg 360  
 ggacaant 368

<210> 14947  
 <211> 330  
 <212> DNA  
 <213> Glycine max

atcagacata aatttaccga ttatgtaaga actatggtagg ttatgaattat tcatcgcaat 121  
 ttaggataag taggagcaaa agctccgctt ttgtcgacca ccccaagagg atggtaatgg 180  
 tccaatgctt taatgggttct ctcttttcaa aaaccaaga tggttgatgg tccaaagctt 240  
 taatgggtttt ctctttttta agaaacaaga tctctttaat ggtttaatgc cgtaaagctt 300  
 ctctcttttc aaatcacaa catcggttaa 330

<210> 14948  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14948

agcttgaatg ctctattcaa tggagttgac aagtatttct tcagactgat caacacatgt 60  
 acagtggcca aggatgcatg ggagatcctg aaaaccactc atgaaggaac ctccaaagtg 120  
 aagaatgccca gattgcaact attggccaca aaattcgaaa atctgaagat gaaggaggaa 180  
 gagtgtattc atgacttnca catgaacatt cttgaaattg ccaatgcttg cactgccttg 240  
 ngagaaagga tgacagatga naaactggtg agaaagatcc tcagatcttc gcttaagaga 300  
 ttngacatga aagtcactgc aatagaggag gccaagaca ttngcaacat gagagtngga 360  
 tgaactcatt ggttcttcca aacctttgag ctangactct cggatagggc tgaaaagaag 420  
 agcaagaatc tggcggttcg 440

<210> 14949  
 <211> 432  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14949



tacgaggggtc ggcgatgtgt atgtgcacga ctgcgaacatc cgagtgaat gttctgacgt 240  
 tggaatgtct 250

<210> 14952

<211> 100

<212> 100

<213> Glycine max

<214> 100

gattagatc aaaggggag gacatttca ggttttgag aggaacata ttttaacta 60  
 taggtggac ctcccagaag agtatggagt cagcaccact ttttaacttt ctgatttaat 120  
 ttttttgc aatggagctg atattgagga tgaagaacta acagatttga ggtcaaatcc 180  
 ttttaagggt gaaggggatg atgcaatctt ccttaggaag ggaaccagtc ctagagccat 240  
 gagcaagagg ctccaagagg attgggctaa agctgctgaa gaaggcccta gggttctcat 300  
 gaacctcagg gtagatttct ggtccatgg gccaacgttg ggtccaatta ttttgtaca 360  
 tattagaata ggatgtcatt atattt 386

<210> 14953

<211> 327

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14953

ctgcagctat gggatgaatg gcaattatca gcagatttct ctctgcactt atggaggatg 60  
 caagtgtgac gttgggatca aaatggagaa acaacgagaa gaagagaaaag ttcataaatt 120  
 ctgcatgggt ctagatgatg ttttgaacgg taagggtccgc tctaaccttc ttgcaactga 180  
 tcccttgccat acattaaata gagtgtatgc cactttgggtg caagaagaaa gagtgagaac 240  
 catatctcgg ngaaaggagg aacgaggaga ggtgtttggg ttctctgcac aggcctgtgg 300  
 aagaaccata ggactcgtg aatcaaa 327

<210> 14954

<211> 352

<212> DNA

<213> Glycine max

<400> 14954



acttgggaga ccttggcaat atgatagaga tgttgtccat aatggggta ccaatcgata 360  
 tttttcttgg aataaaggta aaaagttagt tctc 394

<210> unsure at all n locations  
 <400> 14957

aacaacgggt cacaaatggg ggagagctgc gatatgaatc tggcaatata attcaagcgt 60  
 ccagggaaac ctgggaattg cctgtctgta cggagttctg gcctctcaag gatagccttc 120  
 accttttggg agtctacctc tatcccttcc tggcttaca tgaaccaag caatttcctt 180  
 gattcgaccc caaagggtaca cttagcgggg ttcaacctta attgatattt attaagcctt 240  
 tgaacaaact tccgcaagat gacaagggtg tcttactcag atttagattt agcaattacg 300  
 tcttcacgt agacctcgat ctcttgatgc atcatatcat ggaacanagc taccat 366

<210> 14958  
 <211> 356  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14958

tcaacatcag accactttta ggggtgctga actatttcac atgggtcttga tggggcctat 60  
 gcaagttgaa agccttggag gaaagaggtg tgccatggtt gttgtggatg attctctcag 120  
 atttacctgn gtaactttta tcagagagaa atcagacacc tttgaagtat tcaaggagtt 180  
 gagtctaaga cttaaaagag aaaaagactg tgcctcaag agaatacagga gtgacctgg 240  
 cagagagttt gaaaacagca agtttactga attctgcaca tctgaaggca tcaactcatga 300  
 gttctctgca gccattacac cacaacaaaa tggcatagtt gaaaggaaaa acagga 366

<210> 14959  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations





gagatagatg gtctgaagag gatagaaaac gagtacaata caatttataaa gccaaaaaca 370  
 taataacatc tgccttgga atggatgaat atttcagggc ttcaaattgt aagagtgtca 380  
 aggaatgtg g 391

<213> Glycine max

<223> unsure at all n locations  
 <400> 14962

tgacatctga tctgtggaca tctgtactt cttatgttat atttcattaa ctgcgcatta 40  
 tcttgatgca aattggaggt tgaatggtta aatggntaat tttctcatt tctctctcc 120  
 aactcgggg cytgagatgg cttaaattat atatggnttt ttttgaaga atggtggatt 180  
 gaggacaaaa tatcttcatt aattctagat gatgcttctt ccaatgataa aatgcaagac 240  
 tatttgaagg aaagactttt gcataactat ggttttagtaa gtgggtggtga attttttcat 300  
 atctgatgtt gtgctcacat ttt 323

<210> 14963  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14963

ntgagtaaat tcaaacgaca ttagctnnnt acttgatgn ctaanagagn gccgaanta 60  
 tttcaggac gcttaaaaat ggatggtgaa acttttaacc cattcaaacc aacataactt 120  
 tttactgga agaattgatg aagtcggaa tataacgaga cgcctcgaaa tgaatgttga 180  
 agctctgagc ccattcaaac gacaataact tttactcgg atgtctgatt gattccgtc 240  
 atatatcgag acgctcgaaa ttgaatgttg aagcacttag ccaattcaaa cgacaataac 300  
 ttttactca gatgtctgat tgagtgcgt aatatatga gacgctcgaa atggaatgtt 360  
 gaacctatga 370

<210> 14964  
 <211> 379

<212> DNA  
<213> Glycine max

<400> 14964

ctagtgatcac cagatatttct gcagtggccac ctgtgtggaa aggccaatgt caatcagggg 60

gaggtgaggtg ggggaggggag ggggaggggag ggggaggggag ggggaggggag

ctacaaattt tggggataat aatataggaa agtgatagga gcaagataa acaggagagg 120

atataagctt gctgagggag attcagatgc aaaaaagtc ttcagatctg caagggacag 300

gactggccat gggagccaca cagctccat agcagcaggg aggtttgtgg caaacatgaa 360

ctacagggg ctggcaagt 379

<210> 14965  
<211> 372  
<212> DNA  
<213> Glycine max

<400> 14965

tgctattaca aaagcatgca aaatgggtag agttcataga gcaatttcca tatgtttaca 60

aatacaaaaa gggaaaaaca aatgtggtag ctgatgccct ctctagggtg caaacattgt 120

ttgtctccct agggactcaa attttaggat ttgataacat taaggacttg tatgcttttag 180

atgaatattt ctctcccatc tacgagagtt gtgggaaaaa ggctaagat ggattctatt 240

tggttgaggg gtatttggtt aaagagggaa agctttgcat accccaagga tccattatga 300

aattacttgt gaaatagagc catgaggttg ggctcatggg ccactttggg ataaacaaga 360

cccttgtctt ac 372

<210> 14966  
<211> 200  
<212> DNA  
<213> Glycine max

<230> unsure at all n locations  
<400> 14966

gcttctcata tgttatgcgt ctgaatggga catgctattg taaaattatg accatcttta 60

ttttccgaga gcttccgtcg gcaatttcta gcattctgat acgctatgtg cctgaatcgg 120

acatgcgagt gaaaacctat gaccatttga atttctcgag agcttcccggt ggtaatttc 180  
tagcgtctcg ataogctatg 200

<210> 14967  
<211> 127  
<212> DNA

<400> 14967

acaatattta ctaatagaat taatgagttt aatgttaata tgatattntt attttagata 60  
gaaataaagt attgtttgtag catgataaaa tataaataaa atcaagatag agataaaaaa 120  
aactttaaaa agaaaaaaa catgagtgta tttaatttaa taaattatgt gagctaacia 180  
ttaatgtggt tegtatctac taattaattt atatataata ataaattaaa ttataagata 240  
tgagttgagt tgagttgggc cgagttgaat aaaataaaa ctgttaccac actcttatnt 300  
gatcgggtct taattggtgt gggtcatgnt tgactgaag aacactctaa aaacttaac 360  
caatataatt agatcgnagt gagtcac 387

<210> 14968  
<211> 267  
<212> DNA  
<213> Glycine max

<400> 14968

tcagatatct taagaaagga ggggtgaatta agatattgca aactatctcc ccaattaaaa 60  
ttctatttca cttctctatc aagttacaaa ttcccttaac aatgaactct taaataatga 120  
ttcaaataga acaatctgaa tataaatatt aaataataat aaataaaaaga ggtcaaggga 180  
agagaaagtg caaactcgga tatatactgg ttccggccaca ccttgtgccc tacgtccatt 240  
cctcaagccg cttgagagtt cactatc 267

<210> 14969  
<211> 452  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14969

gcttatctac ccacacnctt ctattaacta tattattctt cttgaaaata attacngata 60  
 aaaataaacac aacaaatata atcaaacac aaacataatt actaataata tatagatata 120  
 tatcaagggtg ttacaactct cccactctct tagaaatttc atcctcgaaa tttacgtrac 180  
 taaacacacac aacaaatata atcaaacac aaacataatt actaataata tatagatata 240  
 tttacgtrac  
 ttgacgcgtt agaggtactt ggcacccatc tgtgcacaaat aaggtgagt ttgaacatgc 420  
 cagaaatcaa aaggaagcat tgtacacaaat cc 482

<210> 14970  
 <211> 315  
 <212> DNA  
 <213> Glycine max

<22> unsure at all n locations  
 <400> 14970

cctcggatcc ctgtcagata caatactaga aggaattcca tgcaacotta ctacttcctt 60  
 gatgtacaac tccactagct tctccattct ataacttcata ttcactggga taaaatgagc 120  
 agatttggtg agtcgatcta ctatgaccca cacagcatca tgttcacgac tagtcttggg 180  
 taaaactagat acaaaaatcca tagagatgct ctgccatttc caattcagaa ntttcaatgg 240  
 ctccaattct cccgatggtc ggtgtgctca acctagcctt ntacatgtaa acatcttgc 300  
 acatattcagc tacat 315

<210> 14971  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<22> unsure at all n locations  
 <400> 14971

acaaaactcct taaaacttgg taaataaaatt aaacgtgaaa ataaaaaata aaaaatcaaa 60  
 getactgatg cacacgttca aacactcctc ctggcatcaa tagggccaaa ttctaagtct 120  
 ttctcttaaa tcttcaaact tgccttttgc aagagactnt gtgaatatgn ttgctagtgg 180  
 atcttcagtt ctgcaatact ctagtctatc tacaccatct nctggaacat ctctgatgga 240

gagtagttty atgctaacat gnttgggtctt gccatgaaaa actagattgg ttgagatagc 300  
tatagccact tgattatcaa ccattgacttt ggtactcatt ntntgctcta agtgcagatc 360  
atttaanann attctcaacc atacagcatt attaacat 398

<223> unsure at all n locations  
<400> 14972

gattagtgaac atcctgtgact tgatcttgag ttaagatggt cgcaagttag atnctttaga 60  
atctccagct cgtgttctct attcagcatt gaatactgaa ggcaggggaa ggactaccca 120  
gaaggggtcag aatgggtcag gctatcata gtcaagaggg aaaggtcaca gaaaatttca 180  
aagtgaagat acttggttga atgttgacaa gagaggtcac tttagcaatc agtgcaaggc 240  
accaaagaag aacaagtcgc acaaaaataa aaagcgcgat gatgatgaat ccgctaattc 300  
agcaactgat gaactagatg atgcattaat ttgcacgttg gatagtcctg ttgagtcatg 360  
gatcatggac tcangtgogt cgttccacac tactccctct 400

<210> 14973  
<211> 351  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14973

agcttctatc tttcttatct aaaagtatta tttctacctc tagagngttn gaacttttac 60  
atttaaatat ntctggctct tctagaacca tatgcattag agggaaatcac tatgctttga 120  
ttattgtaga tgattgctct agatatactc agaactttatt ctatcttctt tgagtaatgc 180  
ttttaagtc tttaaaaaac ttgccaagct tattcaaaat gaaaaggaat tcaaaattaa 240  
aagtttgaga agtgaccacg gaagagaatt tcaaatgac tctgaattgt ttgtgaaca 300  
aatggcatt aatcgtaact ttctcgctcc aagaacacca caacataatg g 351

<210> 14974  
<211> 400  
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14974

agcttggtcc ctccttggtc taagggtcng gttatgtga aaacagtctt attctgtgga 60

caacaattc tagaatctat aatattgta gaaataggc caaatctct catcatggaa 240

ccatatgcac ctcctgtgat gtgcctcca atccccaagg ttgtgcaaaag goctgcaagg 300

aagccatgaa ctgcactctt ctctgaaatc ctgtagttaa ctccaccaat agtggcaacg 360

gcttggtacc aagccgtgtt tctgcaata tcaacattca ct 402

<210> 14975

<211> 456

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14975

gagcattgga ngttttctgt gccaatagc ttcttttttt tccagncttc ttctggcttc 60

aattcatcag tgggttttcc ttctgtgtcc agcatcttgg gatgtccca goctttgatg 120

acagctttcc aggttctgct atccagtgt ttgaggaagg ccaccattct tgcctttccag 180

tattcatagg tgcctacatc aagaatagg ggtctgtcca ctggctctcc ttctttctcc 240

atgttcatca caatttatct gccagatct cactctgtga ttaagagtgt ttgtctgtat 300

accaattgaa attctgatac cagaggacag atagccgaac cgacgtcacg acatcacgct 360

tcagaacatg cagttgatgt gcgtccgtat gaacagatta nacaagtaat atcacaagag 420

aattgttacc caggtcggag cacttaacct acatgt 456

<210> 14976

<211> 414

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14976

agcttatgca gcanatatat actatagacc ttctcaacct cagcagcaaa atcaaccaca 60

gcagagcaat tatgaccttt ccagcaacag atacaacctt ggatggagga ataccctaa 120  
 cctcagatgg tccagccctc agcaacaaca acagcagcct gctccttctt tccaaaatgc 180  
 tcttggccca agcaaacctt acattctctc accaatccaa caacagcaac aacccagaa 240  
 gatgggacaa ttggctaccc aattgaatca acaacagtc cagaattctg acaa 300  
 gatgggacaa ttggctaccc aattgaatca acaacagtc cagaattctg acaa 360

<310> 14977  
 <311> 392  
 <312> DNA  
 <313> Glycine max

<400> 14977  
 agcttatgag atgtctggaag agtctaagaa tttcttgaga taaaatcttc tacttagct 60  
 tccacaagc tacgtaattg atatggaata ttacaaagat tcacaacaaa atactatta 120  
 gaaaataatg ttttaacatc agttattaag gactctcaac atcagttatt gacattgaaa 180  
 gtaatactgt taacatcggt ttcccaaac cgatgttata ataaaatgac aacatcggtt 240  
 ttttaataa ccaatgttag atattaagaa ttatataaaa aaaagtcata tacttcata 300  
 tcaacatcgg tgtttaccag aaccgatgtt aacttattca tacaacaatc gggttttaaat 360  
 caaaccgatg taatatatac atacaacatt ga 392

<210> 14978  
 <211> 353  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14978

ctactcatg ctctctctta atgactatgg catcatttct ggcaactaaac tctgngagt 60  
 tggaggccat ctctcattt aaatttctgg ctccagcagg agtcatgtct ccaagggctc 120  
 caccactggc agcatctatc atacttctct ccatactact gagtccttca taaaagtatt 180  
 ggagaagaag ctgttctgaa atctgatgtt gggggcaact ggcacatagt ttcttaaatc 240  
 tctccagta ctacataaag ctctctccac tgagtttgtt aatacctgag atactcttcc 300

taatggctgt ggctctggaa gcagggaaaa atttttctaa gaatactctc tta 353

<210> 14979  
<211> 147  
<212> DNA  
<213> Glycine max

cttaatatat cgagacgctc gaaaatgaat aacgaatgct ctcgaggaat tcaaattgtc 120

atatcttgct acaactgatgt cccattc 147

<210> 14980  
<211> 394  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14980

agcttgtagc anattgcaaac ggcaataacg ttttactcgg atgttcgatt gagtcacgta 60

atacatcgaa acgctcgaaa ttgaaaacag aagctctgtg caaattcaaa cgacaatata 120

ttttaactcg gatgtccgat tgagtcctcg aatatatcaa gacactcgaa attgagaata 180

aaagctctga acaaattcaa acgacaataa ctttttactc ggatgtccga ttgagtcacg 240

taatatatct agacactcga aattgagaat agaagagctg agcaaattca aacgacaata 300

actttntact cggatgtccg atggagtcct gagcgtctcg atatattatg cgcctaaact 360

ggacatcga gataatagtt atgactattt taat 394

<210> 14981  
<211> 297  
<212> DNA  
<213> Glycine max

<400> 14981

agctattctc tcttatgtcc gatttcggag tatattagat cgagacactc gacattgagc 60

aacgttagct ctgagaaaat tgaaatggtc ataactctcc acaacggatgt ctgactcaga 120

cgcattatat aatttagatg ctcgaaattg aaccactgaa gctctctaga caactcaaata 180

tccataaact tccactcgtg ggccgaatc ttgcccataa aatattagac ggtcgaattt 240



gaactccaat ctgcttgaga aataactaacg ggctaactc tctaccggg attatcg 297

<210> 14982

<211> 414

<212> DNA

<213> Glycine max

gcttcagctn tgtccacaag gcttcatggt ttctgtcca aaatcgctaa ttgaacctcg 61

gctccctgtc tgatacaata ctagaaggaa ttccatgcaa ccttactact tcttgatgt 120

aaactccac gaggttctcc attctatact tcatattcac cgggaataaaa tgagcagatt 180

tygtgagtcg attactatg acccacacag catcatgcc actgctagtc ttgggtagac 240

tagataaaa atccatagat atgctctccc atttccatc cgggaatttc aatggcttca 300

attctctga tggctcgtgg tgcacaact tagcctttg acatgtcaaa catcttgcta 360

catattcagc tacatcttcc ttcatgccat gccacaaaaa acttctcttc aaat 414

<210> 14983

<211> 364

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 14983

agcttgtaag gtatgcatac ctcacaaaat atatgtatgt gtgttttaggt agcaagatac 60

cttggatatg catgtatata acanacatac ctcacanaat atatatatgt atgttttaggt 120

agcaagatac cttggatatg catgtatata gcanaaatat ctcacaaaac atatatatgt 180

atgttttaggt agcaagatac cttggatatg catgtatata gcanaaatat ctcacaacat 240

atatatatgt atgttttaggt agcaagatac cttgcacaca catgtatata gcaaaacacc 300

tcacaaaaat atacatatgt ttaggttagca aatacccttg tggaaagaga aagagatata 360

aaag 364

<210> 14984

<211> 314

<212> DNA

<213> Glycine max

```

:223>      unsure at all n locations
:400>      14984

```

..AACAACAGCA GAGGCTCCTT CCTCCAAATG CTGCTGGCCC AAGTAAACCA TACATTCTT 60

acacacagtc ccagaattct gacaagctgc attttcaagc tgcacaaaat cccaaaaaatg 311

tagtyccatt 1cat 314

14935

4411 457

212 DNA

213 > Glycine max

42235 - unsure at all n locations

430 14935

gcctctgggtg ggacatcttg acttgctntc ttatctgaca ttcaccacaa attctgcctt 60

ctctatatt cagattggga atgcctctaa cagcaccttt gtcaatgatt ntcttcatgc 120

ctcttaagtg cagatgtcca aatctttgat gccatattct gacttcattc tctttggagg 130

ataaacatgtt ggaggagtaa ctggtttctt gaggtgtcca taggtagcag ntgtcctttg 240

atctctgccc ctctcattaga acttcactct tctcatttgt caccaaaacat tctgactntg 300

tgaagtttac attgaatcct tcatcacaca gctgactgat gctgatcaag tntgcagtca 360

gtcccttcac cagcagtaact ttgtccagac taggaagtc atcatggact agctttccca 420

ttccaatgat ctttccttta gagccatctc caaatgtcac atagcta 467

.210> 14936

329

(012) DNA

..213> Glycine max

14936

\*gggtatttg atgaattacg gtttatgtgt actcaacttt ttctgttttag tgttacttga 60

ccaattaggg tttaggggta tttagacataf taccgtcact tuastaatta cgggttaagg 120

ttatthdaca	aathadgutt	acttuactaa	ttatgattta	tudghghata	actaattagg	180
------------	------------	------------	------------	------------	------------	-----

gttatgaata cttgacttat tagggtttag ttttacttga ccaattatgg tttacgggtta 240  
 ttttaacaaca tttgggtttat ggctacatga ctaaataggg tttagcgata tttgatagat 300  
 aagggttag gtttacttga ctagtggg 360

<213> Glycine max

<223> unsure at all n locations  
 <400> 14937

ctagcttgat ttcctttggt ccggaacct ttttttctt atgtgcaccc aaacccaattc 60  
 tccgggttcg aagacaacct tttttctcc tttgttgggt tgtttagcat agcttttatt 120  
 tttctctta atttgatctt tgactctct atgaagcttc ttcacatagt ccgcctttgc 180  
 ttgacctct ctatgcttaa naacagatac attaggcata ggcaaaagat caagaggagt 240  
 tagtgggtta aaaccatcaa cagcttcaaa aggagaacaa ttagtgggtgc tatgaacagc 300  
 tctattgtaa gcattatcaa catggggtaa acaagcttcc caagtcttta agttcttctc 360  
 caaaact 367

<210> 14938  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14938

ggatanntaa tgggagcatt ttttttctt ttaaggaaa atggacgacc acttttagtgc 60  
 tggttttgcc taacccgaga gaaccatttg aggtgtattg tgatgcacca aagatggggt 120  
 taggtggagt gttgatgcag aatggccaag tgggtggcta tgcttctaga caacttaaga 180  
 ctcatgagag gaattatccc acccatgac tagagttygc tggctgtagt ttgcccctta 240  
 agatttggag gcattatctg tttggctcra agttcgaggt gtttagtgat cataagagcc 300  
 ttaaatattt gtttagtcag aaggagctga acatgagaca naggagatgt gttagagttc 360  
 ttaaggatta tga 373

<210> 14989  
 <211> 336  
 <212> DNA  
 <213> Glycine max

<400> 14989

atattctagg attcaatcag acatccgag aaagaattat tttcgttaga attggctgag  
 aggttcaaca ctcaatttcg agcgtccga tatattacgg cactgaattg gacatccgag 240  
 tgaagaagtta ttgtcgtttg aatttgctcc gagcttcaac attcaatttc gagcgtctcg 300  
 atatattag ggaattcaatc agacatccga gtaaaa 336

<210> 14990  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14990

agctntaagc caattcatac gacaataact ttttactttt atgtctgant gagtcccgta 60  
 atatatcgag acgctcaaag ttgaatgitt aatctttaag ccaattcata cgacaataac 120  
 ttttactcog gatgtctgat tgagtcocgt aatataacga aacgctcgaa attgaatggt 180  
 taagctttga gccaattcta acgataataa ctttttactc ggatgtccga ttgagtcctg 240  
 taatatatcg acacgctcga aattgaatgg tgaagctctg agcctattca aacaacaata 300  
 actttttact cggatgtccg attgagtgac gtaatatatc gggaccgctc gaaatgaatg 360  
 ttgaacctct gagccaactc aaacgacaat aactttntac toggatgtct gattgagtc 420  
 cgtaatatat cgagac 436

<210> 14991  
 <211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 14991

agcttttaat gaacggaata tctaagnta atcttatatt gcttgtaacc gacccaata 60

tttcatgtta tcatatatgg taatatattga tccatatata ttgattttta actacttaat 120  
 ttgcagtcctg tacacettac tttagcttat gcatcaacgt tttcccgta atgtataaga 180  
 atcacaacaa atgagacaag ggccacttta aagtccaaat agtccaagta agagcttttg 240  
 atctctctctg tttctctctg tttctctctg tttctctctg tttctctctg  
 atatngttaa taacaatgta attataataa gacaataata acttaataca agttattat 4.  
 aactaaat 428

<210> 14992  
 <211> 215  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 14992

catccttget ttcagctatt catagttggt tccatcaaga attggtgggc tgttcactgg 60  
 tctcctttct tctccatgt tcatcagaat ttatctccct aggtctcact cagtgatttc 120  
 gagtgcctgc tctgatacca attgaaatc tgatatggng gacagatgta gtaccggatg 180  
 tcaagacatc acgcttcaga acatgccaga tatat 215

<210> 14993  
 <211> 424  
 <212> DNA  
 <213> Glycine max  
 <400> 14993

gtacaaatag aatcatcttg atatgactgt ttggaagtt ctcttactag gctatgcttt 60  
 tgaagctttg agathaacct ccagctagca tggtaaaact tcttattcca taccagtaa 120  
 tgcctcttga ctaaaagtaa gcatgacacc ttttgattgg atagatcacc aagtttaate 180  
 ttatagtgat ttccttgtct cttagtagac aagagtaaag agttgtcctt gttttggatg 240  
 atacacatat ccttggttaa gttaaaggtg acattgtatc cactatcata caattgactt 300  
 atgctcaaca aattatgctt caatccttta acaagtaaaa cattattgat agaaggataa 360  
 taaggaatac aaaccttacc tacacctatt attagacctt tctgattccc tctgaaagtg 420

acca

424

<210> 14994  
<211> 438  
<212> DNA  
<213> Glycine max

agcttcttag tctcagatga tgcagcttag ttgtatcta tctcaggaac tctcttaag 60  
actatagcat cattttctggc gctaaactgc tgggagttgg aagccatctt ctcaattaaa 120  
tttctggctt tagcaggagt catgtctcca agggctccac cactggcagg atctatcata 180  
ctctctcca tattaactgag tcttcataa aaatattgga gaagaagctg ctccgaaatc 240  
tgatgggtgag ggcaactggc acatagtntt taaatcgtc ccagtaacta taaggtctct 300  
ctccactgag ttgtctaata cctgagatat ctttctgat ggtctgtggt ctgggaagcag 360  
ggaaattntt ttctaagaat actctcttaa ggtcatccca gctcgtgatg gaacctggag 420  
caaggtaata cagctagt 438

<210> 14995  
<211> 431  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 14995

agcttctctc attnttatgg attgatgtc ttatgactat cttcgnatat attaaaccga 60  
gttccaaacca aggcctgtct aaagacacat tttagattat tcaaggyttg gataccaagt 120  
ttggacata tagcgtttg gggatgctc tctgaagtaa gaatttataa tccacaagag 180  
aagaaaactag accctaagac tattaactggn tatttcattg gatatgctga aatgtctaaa 240  
gggtataggt tctattgtct atcccacaac actaggattg tgaaatcaag gaatgcaaag 300  
tttcttgaan atgacttgat cagtgggagt gatcaatttc aaaacatttc ttctgaaagg 360  
gateactatg aagctgaacc ttctgggaca ngtaataggt ngtagtcatt ctacccctc 420  
aagtaaaatg g 431

<210> 14996



aatttgactt ttatctctct tttgggtctt cccaaatata gtattcatgt gttcaaccgg 300  
ctgatataac tac 315

<400> 14999

<400> unsure at all n locations  
<400> 14999

tagtgcaggg ttttaanaaat cctcttatgc tctgctctgg gatggggcaa atcatatagt 60  
ctcaaatccc aaacttccac aagataacat gcctttcaac cgttgcctgt attacctctt 120  
tttgttatgc attaattgga agcgggcttt ctctggcaag agttgtatca cgtatgagct 180  
ccacctatat ctctccaaaa gctgtccatc attcattcca gaaaatatat gctacatttt 240  
tttatcagca aatgttagtt tcttagaatg ttaattttgt tagcagaggg attgaacatg 300  
taacctttct tcttttctct tctcttttaa ccatccagcc cactatatat ctgttacaat 360  
tttatactag atatttctta agtcactca ttagctta 398

<210> 15000  
<211> 328  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15000

agctnntatc tttagatctt taagtgcaga ttttcatgan tatgatagat ctcatccagc 60  
gcaagtttgt gcagcccaga tacgcacact gctatataaa catgaaggct gcacgagttt 120  
tctaccaagt cggggattga agagttatct tgtgagtttt gggacttgag tgtttttgtga 180  
gccacottga tgttaccta acatcaagtg ttggacctga gttgttagag ttgatctcta 240  
atgttcagag agcaatctct ggtgtgtctt tgatttaatt gtaaacaccg gagagtgatt 300  
gagagggagt gagaggggtt ctcatatc 328

<210> 15001  
<211> 448  
<212> DNA  
<213> Glycine max



<400> 15001

ctcagcttta ggccttggat cttcttcac c aatggagacc tttgcttcc gaatatatat 60

ggaagcagaa tggagaagga agaaagatga ttggagacgc cacttcaagg agaagatgag 120

ggaagcagaa tggagaagga agaaagatga ttggagacgc cacttcaagg agaagatgag 180

ggaagcagaa tggagaagga agaaagatga ttggagacgc cacttcaagg agaagatgag 240

ggaagcagaa tggagaagga agaaagatga ttggagacgc cacttcaagg agaagatgag 300

ggaagcagaa tggagaagga agaaagatga ttggagacgc cacttcaagg agaagatgag 360

ggaagcagaa tggagaagga agaaagatga ttggagacgc cacttcaagg agaagatgag 420

ggaagcagaa tggagaagga agaaagatga ttggagacgc cacttcaagg agaagatgag 480

<210> 15002

<211> 424

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15002

gggaacaaga atctaaacct tgtctctagt gaactgaact aattcttcc ccattgttgn 60

gaaccaagaa tcttcaactc atgcttcatt aatgttttta ggctcaatgg atgagagaag 120

atccatcatt cctctctttt tcttcaagga tgcctctgtt ttgaactcag aagatgttcc 180

tccaatgatt agatttggag gatgtgaata gacaaacctc atatctctag gcattgttagc 240

tctatctttt tgtccaaagc tttgtcttcc tgaactctcc ctttttgagc tatcttgtaa 300

agatcttctt aatttttctt tgggcctctc angctacgtg tagtgttctg agtatgcctg 360

atgatcttta tctttttcta gttcttctaa atctgcaact cttctctctc caagtgtact 420

atca 480

<210> 15003

<211> 421

<212> DNA

<213> Glycine max

<400> 15003

ctcagcttcc agaataagat cagattcaga ctcagattat tattcagaga agattaatta 60

agataagtat aaaaaagttt ttccaaaaac tgagtagcac atggattttt ctcaaaaacca 120  
 ttttaccaaa gagttttttac tctctagtaa tggattacta gattattgta atcgattacc 180  
 agtagtaaaa tggatttgaa aaagtttaca acgttccaat tgatttcaaa atgttgtaat 240  
 ttttgaat ttttgaat ttttgaat ttttgaat ttttgaat ttttgaat

5 421

<210> 15004  
 <211> 471  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15004

agtttatatt atataataac aaanaatgaa atttatatca ttatttacct tcatcatctg 60  
 aaacatntc attcattaca ttagcacatt cagcaacaac tttatagctt gtagaaccta 120  
 taaaaataca ttactagtat tagttcttga ataaacacaa atatcaattt aacaacatat 180  
 atgaataaaa ctctaccctg attttcagca ctccacaaca aacttctagc gcacattaaa 240  
 gctctaaaag tagtcattg aagtctacta cgatgtgggc ttaatacttg accaccagtg 300  
 cttaatgcag attctgaagc tacggtagat actggaatag ctaatatatc cttagcaatt 360  
 gcttgaagtg gtggatactt gacaccatta aacttccacc acatcanaat atcaaagtea 420  
 acagctcttg gaaaacatct ttttctaata gtagctaact ctgattaaca t 471

<210> 15005  
 <211> 373  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15005

gacctatgaa actcagctat aattatcgat acgtcaaaa taacatcgaa naactctcgtt 60  
 atatcaaata gncataacta ttcacaaggc tctccgattc gggcgcataa tatgtcgaga 120  
 ggatcgaaat tgaacaacgg aagctcttga gaaattcaac tggctataac tttcacaagg 180

atgggtgaat caggggcaat acatatacag accctctaaa attaacaacc gaagctcttg 240  
 agaaaattcaa atgggcataa catttcacto gaatgtccca tttcggggca tcacatatag 300  
 agaacctoga aaatgaacaa cggaaactct cgtgaaattc aaatgggcat aacttttca 360  
 atggaattcat

<210> 15006  
 <211> DNA  
 <213> Glycine max

<400> 15006  
 gttgcattca atacctgat gaggatgtcc catatgttct tataactaga ctgatacaact 60  
 ttttgcctaa gtttcattgt tttgcagggt aagacctca taagcatcta aaagaattcc 120  
 atattgtctg ctccaccatg aaacctccag atgtccaaga aggtcacatc tttctgaaag 180  
 cttttctcca ttttttatag ggagtggcaa aggaactggc atattacctt gctctaaggt 240  
 ccatcaagag ctgggatgac ctcaaaagag tattcttaga ataaattttc cctgcctcca 300  
 ggaaccagac catcagaaaag gatatttcag gcattacgca acttagtgga gagagcttat 360  
 atgaatactg ggagagattt aaaaaactat ggcgcagttg cctcaccac cagattttctg 420  
 agcagcttct 480

<210> 15007  
 <211> 326  
 <212> DNA  
 <213> Glycine max

<400> 15007  
 ctccatggg ttattcccta atggatgaca ctccctctca cctcttgtcc tttgtcttc 60  
 gctgcattct catgggtggg aatcaccatt gaaggacctc attgaagctc aaagatccat 120  
 ctttcataaa agctccacaa gcaagcttac atcatatggc atagcaaaac aaagaaattg 180  
 aactcttaag gatatgggta gaagaatgat tagtcattct tctttgccag agtcaatttg 240  
 gggagaagcc ttaaagaccg cattttacat ccttaatagt gtgctaggta aagcagctaa 300  
 caaacacctt tatgaacttt ggaactg 326

<210> 15008

```

4223>      unsure at all n locations
4400>      15208

```

ttgaacacaa	atctgtatc	aatcttttaa	ccacacaaag	ttacacatac	tccagtgttc	1
ttgcatgaa	ttctgcttcc	gcactagatc	ttgttactac	ggtctgtttt	ttattctctc	240
aagtacaaag	attctctctc	acaaaagtta	agtatccaga	ggtagatctt	ctatcatctt	300
ttgaacctgc	ctaatctgca	tcctgttacc	cttctacctt	caagttctca	tgatttgaga	360
ataaaattcc	tttttcagga	gttgacttcc	aatatctcan	aattctctcg	actgcattcc	420
ttctgaagc						426

```
<S10>      16009
<S11>      408
<S12>      DNA
<S13>      Glycine max
```

<400> 15009

ttatagcaat ttagatggto ataacgtctc actcggattt cggattccaag cgcataatat	60
atcgagacgc tggaaattga ataattggaag ctattgagca attccaatgg tcataacttt	120
taactcggaa gtcggattga ggcacataat atattgagac gctcgaaatt gaacaacgga	180
agctctcgag aaattccaaat ggtcataact tttaactcgg aggtcggatt gagaacgata	240
atatactag acgtcggaaa ttgaacaatg gaagctcttg agcaattcca aaggccataa	300
cttttaactc ggaggtacga ttcaggcgca taatatctct atacgttcga aattgaacaa	360
cggaaagctct cgaacaaactc taatgtgcat aacttttccg tcggaggt	408

2110:	15010
2111:	407
2112:	DNA
2113:	Glycine max

400 45000

adonitotit ticaattaru adoniticoa tatattattq dootcaalec garatcudaa 60

[illegible]

```

<110>      15012
<111>      391
<112>      DNA
<113>      Glycine max

<223>      unsure at all n locations
<400>      15012

tggcattgat agagtacaaa tattatgaaa ccgacggatt ggcagatgct tcaactaaaa      60
ctaaaaacttt ggagtatctg attagagctg atgctagtaa agtgaacaac tttaggatctc      120
tggaggagga gggcatgcat atgtcgacca acacgaggat gaaagcttca aatttgcctta      180
tgaactgatctc atgtgttgc tcaatattag tgaaaaaacca tagttttggc cttaattcctt      240

```

oetataagcc catgttttat agttcaaaat gtcctttctt ttgtgttggg ggagtttgat 300  
 tgcctattga ttgagcattt gtagtttaat atttttctat tctttctatc tcaattgaca 360  
 ttttttgac tgttattttn tcaactaac t 391

<10> Glycine max

<23> unsure at all n locations

<400> 15013

agtttcaaga aacattttca ttgtgtttgt ttatcttaac ttactagtt agctctgcta 60  
 cacataatgg ctngcttagt gcaattactg ctgctagtaa aagtcctaag gtagtttcta 120  
 attctgtaat ttcatccctt agcaatgcta gcttgtgga ttctaggctg ggtcaccta 180  
 atagcccatg tcatgaagct agtcaatcat tgaacattt cctcatctaa taaaaatttc 240  
 tugaattttg ctctctatgc tatatgggaa attctcacag attctctctt cactctttta 300  
 ttttggata ctctcttttg gagctttttt ttatagaatt gtggggggcct tctcatttaa 360  
 ttctctatgc tggtttcaaa tactatgtca ttatttgatg ttttttccag atacacttgt 420  
 gtatttcta ataaaaacta aa 442

<210> 15014

<211> 437

<212> DNA

<213> Glycine max

<400> 15014

aactagctct tgagaaaactt ctggaagca gagcttattt ctctattccc tctcataact 60  
 aagctcactt ccttgagaag ctccataag aagattccta aagaagctag agcttagcta 120  
 cacacacctc tctaatagct aagttcactt ccttgagatg agaagctaga gcttagctac 180  
 ataccctcta taatagctaa actcaccat atggccaaaa acatgaaaat acaaaaaaag 240  
 gtcctactac aaagactact caaaatgctc tgaatatcaa ggtataaaac ctataactact 300  
 agaatggcca aaatadaagg cccaaaagaa ggaaaaacct attctaatat ttacaaagat 360  
 aagegugctc atacatagcc catgggctcg aaactatccc taaggctcat gagaacctta 420

437

```
<223>      unsure at all n locations
<400>      15016
```

<400> 15017

6331

<210> 15018  
 <211> 384  
 <212> DNA  
 <213> Glycine max

gtatgaa gctgctga gctgctga gctgctga gctgctga gctgctga  
 ttactcggat gtttggatga gtcccgtaat atatcgagac cctccaaatt gaatgtgaag 120  
 ctccgagcca attcaaacga caataacggt ttactcggat gtctgattga gtccgcaat 180  
 atatcgagaa ccttcgaaat gaatgttgaa gtcccgagcc aattcaaacg aacaataact 240  
 attactcgga tgtctgattg agtcccgtaa tatatcgaga cgttcgaaat tgaatggtga 300  
 aactctgagc ctaataaac gacaataact attactcgg atgtctgatt gagtcccgtc 360  
 atatatcgag aacttcgaaa ttga 384

<210> 15019  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15019

tcattaataa acacatcaaa cttcacaggt gtgtttctct caaactcaat ccttcaatc 60  
 accaaaaact cttctctctc ttctttctcc ttctgtctcc tgcacttggt tggcctttta 120  
 accattgtgc tcacaactga atcaaacact agtgggaact tcacattcct tgaagtctca 180  
 gcagcacgtg ctgcaccaac caccaaaatt tgtgctagtg caaccttatg aacctagac 240  
 ctcccggttg tgggcctaga gttaaacat ggaatgtcta catcttggtt aacatacact 300  
 agttntctct cgtcaagaca aatcttacc ttactcgcac aaagtcttta ttctcctgt 360  
 acaagagaaa cccagattta accaatccga gtcagtaa 398

<210> 15020  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations



<400> 15020

tacccgctaa cctagtggat ggaggggttg gctacatgca tgaaaaatta ngttaaatct 60  
tcattgttct cattgtaata aaaaaagaaa ataaaaatgt gtttttttgt caaaactgag 120  
tttaataaa gattttttt tttttttttt tttttttttt tttttttttt tttttttttt  
ttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt  
tatttaaat tatalacctt ttaactctt ttataaaaat ttaaatgatt tttaaaaaa 360  
aagtataatt ttataattaa ntatgatatt ttaattgat atgttattta aagatata 418

<210> 15021

<211> 468

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15021

accctgatga ggatgtccca tatgttctta atttttttct gatttcattgc ttccaaagnt 60  
tcattggcctt gcangtgaag acccacacaa acatttgaaa gaaattcaca ttgtctgctc 120  
caccatgaaa cccccagatg tccaagagga tcacatattt ctgaaggctt ttcttcattc 180  
attagaygga gtggcaaagg actggctgta ttaacttgct tcaaggtcca tcacgagctg 240  
ggatgacctt aagagagtat tcttagaaaa ttttttccct gcttcacagga ccacaacct 300  
cangaaggat atctcaggtt ttagacaact cagtggagag agcctgaatg agtactgnga 360  
gagaattaag aaactatgtg ccagttgccc ccaccatcag atttcagaac agcttattct 420  
ccaaatntt tatgaaggaa ctcaatatat ggagagaagt atgataga 468

<210> 15022

<211> 251

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15022

ttctctcttn tgataaatatg attggacatg attgtgagtt atttgttttc ctctctcttc 60  
tttgataatt taattgatgt gtgaaccaatg atgttttaga ggggagaaga agtgtctdaa 120

tttngageta tggcatgcat gcacgggccc catggtgtcc ctaccaactg cagggactca 180  
 tginggttac ttcctcaag gtcataatga gcanngtttt tgttanttgg gtttactacc 240  
 taactacttc t 251

<233> unsure at all n locations  
 <400> 15023

gtctgtctcc tgaacgcttg agaggctgat gtccaatggt taacctcctt atgtctcaca 60  
 ctngntngtt aaatgtcttg gacgggtcgg acctgcttg acanattcac atacctggn 120  
 tgtatcaagg cttytggtga ctngtcttgg attgatgtgg gggttggaat tcatgggcag 180  
 acctttnaag ttggttatga ttccgacaca ttngttcaca acactntgtt ggcattgtat 240  
 atgaatgcgg gngagaagga agcagcaca ctggttnttg acctgatgct ggaacggact 300  
 gtgatttctt ggaataccat gattaacggg tacttttggg ataactgtgt agaagatgca 360  
 gtaaaggttt atggtagaat gatggatgtg 390

<210> 15024  
 <211> 444  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15024

gactaattgt ctccacattt gattattgct tattatnaaa nangngnca ccagcgnagt 60  
 ggaatatgtt gactggtctt ttgttttttc ccacgaggaa actgctaaat aagctcttat 120  
 caatgcttct ctccattcac cgggtaggcc ttctgaaaca atatngaata gtaaaggcgt 180  
 taggtggtcg ccttgtctaa ggcctcttgg ttggaatgaat ntatttgtgg ggcctgccatt 240  
 taccaataca gaaacggagg ctgagctaa gaaacctca atccaacaaa tccacttggg 300  
 gcagaagcct aatctctcca gcataatga taggaaaccc cagagagcgg agttgtatgc 360  
 tctttcatag tctacttnga acaccaagca ttgcttatga cgcctcttgg ctctctccac 420  
 cgtttcgatg gctatcaata caat 444

<210> 15025  
 <211> 435  
 <212> DNA  
 <213> Glycine max

unsure at all n locations

ttatattga a ttaacatg gatggatttt tttacaaata aagttttgtt actcaaaatt  
 tatatgcttt agatgtatta gataaaacaa gaanaatccc ttttgtaact ttggaatcaa 180  
 atttagcang ttgatcttta gtgttcattga taaagcaact acatccaaat ggatgagaag 240  
 tatgaaatat ggggtctcttt cctctctatg gtccataggg agacttttnt atcaatggte 300  
 tgcataatat tctattctaa acatagcang ttgtatttaa taattctgtt caaaagtact 360  
 tatgaagtga atttccatat agcatgggtt tagccatctt ttgcagagnt ctattttctt 420  
 ttaactacc ccatt 435

<210> 15026  
 <211> 467  
 <212> DNA  
 <213> Glycine max

<23> unsure at all n locations  
 <400> 15026

ttaaaagaac aacatataca ttntttgttg ttttaagggg ataaaaattg taattaaact 60  
 agagaatttt ttattaaatg tgtcactatg acaatgataa atcgattcaa cttaatgtgg 120  
 actaaaaaac ataatcaa ataatcaaaaa ttgagaaatc ataaattttt attagattat 180  
 atcngaattt agatttgaat ttaaaaattg attcaatccc gtcaaaattg aatatanttt 240  
 tatttcataaa tttataatgg cctccatatg tttattttta ttntctatat actttgaaaa 300  
 tttatcatata aattatacct atgaaaaata catcttgatta aagaactttt ttaactacct 360  
 atttgaatta agatggataa atatattatt agttatacag tgatatataa atgaaatatt 420  
 tgataacata aatgagtctt attatatata tatatatata tatatat 467

<210> 15027  
 <211> 463  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<430> 15027

tggttaaccca tgggaagctcc taatatctccc cacactctgt ggtgtggggcc attcttggat 60

agggaattgaa ataatatcaa aataagcaat taataatca tttatgggaa tttttaggac 24

atgatgcata agcttcataa aggtgcttgg tgcattagt agtccaaaag acatcactag 300

ccattcatac aaacaaaact tggttttgaa agtggttttc cactcatcac cctttntctt 360

cctgatttgg tgaataccac ttttaagatc aattntgaa aagatatttg caccatgcaa 420

cicacaaagc aaatcatcaa gtctaggaat gagatgcta tac 483

<210> 15013

<211> 476

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15019

taactgggtt gttaaatgac atatctaaat ctaaatcatt ttgtgataac aagatttgtc 60

ttanaccagt tcaatcatat gcattgaaagt ataaaaactt tcataaaaac aaaaaatggc 120

tttgtggatg aaaagctgga aataacattc tgagtacaac attatgacaa aaaacattct 180

tagtattgca ttgtcataac ataaactgag attttcataa taacaatatt ctgataaatt 240

tttttattta aataatgaac atcaaaaacat aagaaaatgt gcattgacat taggtttctc 300

taatcatatc aaacatttca taatgagttt ttgtgactaac caagtagaga gtttagttat 360

ctaagtgttt gaacctctat gttaagactc ttgtcatacc anaataatct tgagtaaaag 420

ttcaaaaaag gttaaagttc aagaaaggtt aacaaagtca caataacccc tcatte 476

<210> 15029

<211> 453

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15029



tttgaatttc tcaagagcat tegtgttca atttcgagcg totcgatata ttatggggt 240  
 gaatgggaca tccgtgtgac aagttatgac catttgaatt totcaagagc attcgttgtt 300  
 caatttcgag cgttcgata tattatggcg ctaaatcgga gtcctgtgtt acaagttatg 360

<210> 15032  
 <211> 342  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15032

ttcacaggac aataactctt gactcggatg tctgnattgt tgtcctcgta atatatcgag 60  
 acagctcgta tattggaaac cagaagcttc tgagcacaan tcaaaaagac acataacttt 120  
 ttacatcgga tgcctcgatt gaatcccgta atatatcgag acgctattaa ttgaaaatag 180  
 aagctctgag caaattcaaa cggcaataac ttttaactcg ggtgtccgat tgtgtctcgt 240  
 aatatatoga gacgctcgaa attgaaaact gaagctctga gaaaaatoga acgacaataa 300  
 ctttttaactc ggaatgtccga ttgagtcocg taatatatcg ag 342

<210> 15033  
 <211> 452  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15033

tcaagaaaaa gatgggtcca gcanactcct tatttcacaga aggggaattct atcaatagac 60  
 ctccaattct taatggagag ggtaccact actggaaaac togaatgcaa atttttattg 120  
 aggcaataga cctaaatatt tgggaagcca tagaaatagg gccttatata cccaccacag 180  
 tagaaagagt tacaatagat ggcagttcat caagtgaag tataacaata gaaaaacta 240  
 tagatagatg gtctgaagag gatagaaaac gagtacaata caatttaaaa gccaaaaaca 300  
 taataacatc tgcctcgaga atggatgaat atttcanggt ttcaaaatgt aagagtgcga 360  
 agcaaatgtg ggacacactt cgatcaacaa atgaaggaac tadagatgag taaagatcta 420

ngataaatgc actaactcat gagtatgaac ta

452

<210> 15034

<211> 498

<212> DNA  
<213> Glycine max

<210> 15034

agcttactat atttaagacy ctggaattg aataacggaa gctctcngtg aaattttata 60  
gtcatatcat ttccagacgga tgtctgattc aggcgcagaa tatatcgata cgtctgaaat 120  
tgaacaacyg aagctctcga gaaattcaaa tgggtataac ttctcacaag gatgtacaat 180  
tcaaggacat aatataatca gacgctcgtt attgaacaat agaagctctc gagaaagtca 240  
catgggttata acttttcacc cggatgaccg attcggggac ataatatatc gagacacttg 300  
aaattgaaca goggaagctc tcgacaaatt caaatgggta tcaactttca caagaatgct 360  
cgaattcaagg gcataatata tcgagacgct cganatngaa caacggaagc tctcgagaaa 420  
tccanatggt cataacttat catacggatg tccgattcgy gccataatat atcgagatgc 480  
tcgaaattga acaacgga 498

<210> 15035

<211> 371

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15035

taatttctct caattgcctc ttctctcaat gagctagtga agaagaatgt ggcatttacc 60  
tanggtgaaa aacaaaaaca agccttttgt ttgctcaaaag aaaagcttac taaggcactt 120  
gtcttagctc ttcttgactt ttctaaaaat tttagactan aatgtgatgc ctttgagatg 180  
ggagttggag ctgtatttgt acaagggtgg cactttattg cttatnttag tgaaaaactt 240  
catagtgcac ccttcaacta cctcacctat gataaagagc ttatatgctt aataagagcc 300  
ctctaaaactt aggaacatta ccttggtttc aagggaattg tcattcatag tgatcatcaa 360  
tcaacttaagt a 371

<210> 15036  
 <211> 225  
 <212> DNA  
 <213> Glycine max

<400> 15036

atctccatct cctgacgctc agaatggaac aacggaagct cttgagaaat tctaaaggct 15  
 ataactcttc aaacggatgt ccaatttagg cgcaccacat atagt 225

<210> 15037  
 <211> 298  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15037

tatgcacat gtgcactata tgatttggt gttggaagat aaatntaat gaagtaagag 60  
 aagctcaatc caattaaatt ttagaccagc ctaaggggga ggtgagcatt tgcttaccac 120  
 cccccattgt catatcatat agacacacct tgaacatgtn cttctatggt tacatgcctt 180  
 atgacacctt agacacctta agggagaatc ttggatttga tcttggaagg gggctgaacc 240  
 atatctaata tttactaatc ataattagtg aaattctgac tccaaatttg gcttcaca 298

<210> 15038  
 <211> 324  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15038

atctccatct attcattctg ataacctccc atagataaaa acttactaat aagatagatt 60  
 tattggaata agaataaaaa aatagtattg gaagggaata agttaactgac tcatgaatgt 120  
 atatgattaa aattcttata caaccagata catcgaaata agtttcatag aagcccttct 180  
 aaaaattctc taagacctaa ttaggatatt aaatataaaa tgtaaatat aatgggttct 240  
 tggattatta attagtataa atatactatt cggggttaat ntaaatatca ttaaaagtat 300  
 attcatttaa caatataaca tatt 324



<210> 15039  
 <211> 350  
 <212> DNA  
 <213> Glycine max

15039 15040 15041 15042 15043 15044

15039 15040 15041 15042 15043 15044 15045 15046 15047 15048 15049 15050

atgtatctct attgaagatg tacattgcta cttaaagaaa gtctctcagc accacaccac 120  
 atgacctgac tctcatttgg tgcctgactc tctatctcaa acctctccac caataattct 180  
 agtaaccaat taatggcttc ttacctatcc tctatctcat ctatctcaa aaatctcaag 240  
 agttctctta taccactcgc ttcttatatc aataccacaa cgggtatttg tntacttggt 300  
 attatagagg cattattgca gcaaatcagc ctttttcaa agctaatgat 360

<210> 15040  
 <211> 425  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15040

ctataccaat cttatntaga gaacatagca caacctagat tggactaaca aatcttatec 60  
 tcaaagataa atacaattat gctttagtca gcggtatttt ggaagatcac aaacttcatt 120  
 ttaacaaact tgaaagggct ttaattatc taaagcagca gatgcacggg gtggaggatc 180  
 aacaagaaat atatcaagaa gctgggtcaat ggatgttgta atataatcan gatatagctg 240  
 tgaagctcaa ggctatcttc ctctatctcg aacctcacga ggctcncctt aacaaatata 300  
 ctatgaagga tggaaactgg aatatttgtt ggagagggta acgctgcagc atcatgaata 360  
 aataattacc attaggaaag accaaatata cccatcatct gtatactaca tccattatta 420  
 tataat 425

<210> 15041  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 15041

agctngaaan ngaatctgaa gttctattaa atgtcanacg acaatgacgt ttgactcgga 60  
tggtcgatat agtctcgtaa tatatcgaga cgtctgtaat tgaaaacaga agctctgagc 120  
gatttctat gttctatgaa ttgctctgaa atgtctctat atgtctctat 180  
gatttctat gttctatgaa ttgctctgaa atgtctctat atgtctctat 240  
gaaaagtcac aggacaataa cttttgactc ggatgtccga tngagtcctc taatatattg 300  
agagctctgt aatt 374

<210> 15042

<211> 451

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15042

agctngcagt gaagcagcca agacatggat gactttgagt ttttttgttt ttaaaaaaag 60  
aacatntttt taataacttta ttgggggggg ttatttcttg tgttttagtt acatggtaga 120  
gttggtagat agtactgcat ctatgtgtta ttggaagcta attgaaacta attgaggatg 180  
tgatgtgaat gttattgcag aatccggcac cgaagagagg tgagattgtg agacagattg 240  
gtgaagcatt gagggccaag ttggatcctt tgggtagact ggtgtctctt gagatgggaa 300  
aaattctccc agaaggaatt ggggaagttc aggtatcaca attataactg ttctgcaact 360  
ctttttgaca tattatcagg ttgacagca tagaaatcag agtttaattg tgtataatac 420  
tataacactt ctttgatgga aactaaatca a 451

<210> 15043

<211> 282

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15043

tgttttgctc aaagaaaagc ttactaaggc acctgttcta gctcttcttg acctttctaa 60  
aacttttgag ctagaatgng atacctctgg agtgggaaat ggagctgtat tttacaaaagt 120

gggcaccccta cngcttattt tagtgaaaaa cttcatagtg ccacccctcaa ctaccccacc 180  
tatgataaag agctntatgc cttaataaga gccctncaaa cttgngaaca ttnaccttgt 240  
tccaaggaag ttgtcattca tagtgatcat caatcaetta ag 282

<223> unsure at all n locations  
<400> 15044

ctctacatt ttgaagtgt tccaagatct cttctctgc ctcttcatt ntttttggtg 60  
gaaactgttc ttggagggaa tggaaagagga aggatgtgtc gcttctgcaa atcagaatta 120  
ccagtgggaag attcacctgc acagaaatgg ttanggtaaa ttttgtcatt accttttctc 180  
gggttagagt gaagtggac aggttcattt gcagatgagg aaggtgctac gggttgaggt 240  
ctttgacact gctttccga cctcaatgaa atggtaactga ca 282

<210> 15045  
<211> 424  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15045

agtcacctgc ggcattgcaag cttctagagg ttgngcttat ctaccccatt tccnacagtg 60  
cttatgtaag cctagtcacg gtggtaccaa ataaaggggg tatggcaatc attcggaatg 120  
acaagaatga cctaatecca acgaagacta tcactngtgt tggagaaaaa tatgcgtcaa 180  
ttacncccaa agctcacatt gaagccacaa gggaaaagat cttttttctt ttgctcttct 240  
atggaccana tgttggagag gcttgccgga caagcttatt actacttctt ggatggatat 300  
tttgatata ttacagatgc tgtggacccc aaggatcaag agaagacaa cttcacatgc 360  
ccttttagtg ttttttcta cagatggatg ccatttcggt tatgtaatgc acctaccaca 420  
tttc 484

<210> 15046  
<211> 254  
<212> DNA

<213> Glycine max  
 <223> unsure at all n locations  
 <400> 15046

ggtt mgttt tcaatttoga ggtttctgat atattacggg tctcaatcgg atattggagn 60

aggtctgtt tctgaatttt gaggtctctg aattacttta agatttaatt gacatcttta 24

aaaaagttt ttat 254

<213> 15047  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<400> 15047

gattgoggtt cgtaatatat cgagacgctc tacattgtaa acggatgctc gtagcaaattg 60

caaaccgcaa taactcttaa ctcggtatgta tgattgagta ccataataga tcgagacgct 120

cgaaattgaa aaaagaagtt ctgagcaaat tcaaacgaat ataacttttt actcggtatgt 180

ctgattgagt tccgtaatat attgaggagc acgatattga gaacagaagc tctgaccata 240

atcaaaccaa aataacttta tactcggatt tgcgattgag tcccgtaata tatgaagacg 300

ctctcaattg aaacagaag ctcttgaaca attataacga cagttacett taccgatgt 360

ccgattgagt cccgaatata tca 383

<210> 15048  
 <211> 203  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15048

tcccttaatt tcaattgggc agagatcata gatttggtgt tggatcgcct ccgaaaactc 60

gcagacaact gcactagtct ccagactcac tttcttaagg gttgatggca ctatcaatgt 120

agatattaat gatttcaca ccaacttctt gccatacccc agggtcacat tcatcatttc 180

tttgtataat tcaatttatct cta 203

<210> 15049  
 <211> 436  
 <212> DNA  
 <213> Glycine max

unsure at all n locations

-----

```

atgacaaatg atttggtgag aaaaatctgct acattgatcac ttgttgaaac tggtagtagc 120
tctagagtgc ccttcaaaag cttctctctg acaagatggc aatcaatttc caagtgtttt 180
gtgggttcgt gaaaaacggg atttgaggca atgtggactg cgttttggtt gtcacagtaa 240
atagttggag ttctggtaag ctgaactctc anactctgca aaagatacaa cagccattgc 300
aactcacaag cagctgaaga cagagccctg tactctgctt ctgaagatga tctggacaca 360
gtgtttgctt ttttagcaag ccatgacact aaaattctgc tatgaagaaa aatatccaga 420
tatggatttt tagaat 436
  
```

<210> 15050  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<23> unsure at all n locations  
 <40> 15050

```

agcttataat atatttatta cgtctgaaat taaactatca gaagctcttc tatattattc 60
aaatgggggc taacttttca nctctgaatg tctcgattat ggcgacatca ccatatcgta 120
gacgcttcan naaattgaac cagtcggaag ccttttgaga gaattctaat gggtcatata 180
cttttaacat cggatgtctc gatcagggc gcacacatn atcgagacgc tcgaaaagga 240
acaacggaag ctctcgagaa attcaaatgg tcataactta tcacactgag gtcggattaa 300
ggattataat atatcaagac gctcgaaatt aaacatcgaa agctctcaag aaattcaaat 360
ggtcatcact tttcacagg atgtacgatt cgggcgcata atatattgat acgtct 416
  
```

<210> 15051  
 <211> 461  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
<400> 15051

agctataacc aaggggagat ggaccatttc tagtgcctga aagatataat gacaatgctt 60  
apaaaagttga gctgctgggt gagtataatg ttagttccat ctataatgac tctgatttat 120  
gagctatgct gctgctgggt gagtataatg ttagttccat ctataatgac tctgatttat 180  
gagctatgct gctgctgggt gagtataatg ttagttccat ctataatgac tctgatttat 240  
ggacaagggt tagagcaagg aaagccaagg aagctcttca acaagtgttg tccatactat 300  
tgaataaaa gcccaagttt caaggagaaa agtccaaggt tctgagttgt atcatggccc 360  
aaatggagga ggactaaatg gcaccatttc gtccaattt tagagtgtta gtttgtctaa 420  
ataatagccc aatccttgta aagttggtg accaaaaata t 481

<210> 15052  
<211> 432  
<212> DNA  
<213> Glycine max

<400> 15052  
agctatagtt cactgcttca agtagtgcac gatatgtctt cagaggaaaa caagttgctt 60  
aaaagttatt atcaggccaa gaagatactg tgtctgatgg gtttggagta tcagaagatt 120  
catgcctgcc ctaatgattg catactatac aaacatgagt ttcaagacat gcacaaatgc 180  
cctaggtatg gggatcatg atacaaaagt aaggatgatg acgagtgtag tagtgatgaa 240  
aactogaaga agggccccc gcgaagggtg tgttgtatct tccatcatt ccaaggttta 300  
ggcgtctatt tctgatgga gacgaagcaa aagacctac acgacatgta aatgggagaa 360  
actatgatga aatgtccat cctcgggtg atttgtgcag tggagaaga ttgatcatta 420  
tctcggcatt tc 482

<210> 15053  
<211> 353  
<212> DNA  
<213> Glycine max

<400> 15053  
actaagcttg tgcctcttc tgaataaact gctaacatac attctataat gctgaagta 60  
tattagaaag ggttagccct gatcaagctc tcatgggttt gaggtgggtt gggcgggatg 120

gtggacctca cgtgaattca ctcaaagatg ctgtcactgc aatgoggggtg aggggttgagt 180  
 gtgggcttct tactgaagca tttatgcacg agagaatgct ctgcaccaca gtgaaggaaa 240  
 agaatttcaa taaaacagca tctgggaata cttctgagaa gcaaaaaggt caatgtaata 300

<211> 437  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15054

aagcttggtta ctnnttttgg tttataacgt atatagatta atattctctc gcttgcatac 60  
 actnttcagc acattccatg gaagaagcag aagtcctatg tgatcgatta tgaatatttg 120  
 tagaaggngg cttgcagtgct atatgcaatc caaaggaggt aacattgctt aattaatata 180  
 tatgctttat caacttcatt tgcaattaat gggcttgacc ctatagatac egggtcaca 240  
 ctataacttt ggggtttattc tttctacacc caacaaattt cttctatacc caacatatcc 300  
 taaaaaatta taactgtatc cttttttact tcttcttctt cttcggtcct atcttttttt 360  
 cttgtcttctg catagcttat agaaattnta gtgttatata tagtgacatt aattatnntt 420  
 taacatgatt ggtctat 437

<210> 15055  
 <211> 462  
 <212> DNA  
 <213> Glycine max

<400> 15055

acataaaaga agaattctgt acgtgtattg ttgaggtctt aatggaaata tctaaaatac 60  
 aaggagcccc agagataaac caaataacat ggtatctgta agtaagggaat gagctaggat 120  
 aaatattaac aaggacagtt ctatactgat tgaaacttaa gaaactatat gatggcagaa 180  
 atgcaagtgt ta'gggggga atcaatgatt tctataagag ctaacactta ctgaggttaa 240  
 actgtacaat gcagggaatct gaataatatt cttgcggaag actctcaaac aggaaagcag 300  
 eggcatatac cgtatataga tcttaggttg acacttttct tgcaggagtc tctcggagga 360

aatgcataat tagcaatgat ttgtgctatt tcaccatcac acaagtagta tgyaatgcac 420  
 tgcctatteg atatgtttta tctctcgatc tctctgtatt ac 462

<210> 15056  
 <211> In  
 <212> 15056

<213> 15056

atgaacccac ttgttggaca agtgaccaca gtaacttaag aatgtggggtt gaattaagat 60  
 aaaaaacttt ccccaattaa aattntaact tctcttcgga ttaacaatgc acccttaata 120  
 ttaattactc aaagaacaat taaaaataaa ctctctttaa gcaaaaagata aactgcaata 180  
 aataaaagaa agttaagaga agagagaatg caaactccagt ttttatactg ggttggccac 240  
 gccctgtgac taagtccagt ccccaagcaa ccggttcgag atttccacta tctgttaaaa 300  
 acccttttac aaagtctgaa ccacacaagt acatctttcc ctatatatta gaaatcttta 360  
 caacttaaga gaacctcggt ctcttaaaca gatctcttng aataataaga agaagaatat 420  
 tctctcttta agagaatgac attacaattg aagatcgatc aa 462

<210> 15057  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15057

tagtatagct aggcactaac aatctccccc ttgtgcatac ttgtctana acatacttag 60  
 acaatttcctg agcaagtaag agcagttatg caagtgggat caacaacttt cattatcaga 120  
 gtaatcaagg acagcggaaa ttctgcaagt tgcgaagtcgt ttccaggatg tcaagacatc 180  
 ttacttgaca tcagctttct gcttctgctc cccctgtctc catgctctta ctccagcctc 240  
 ttctatcaga tactaacttt ttccaggatg tcaagacatc tcagtgaca tcagcttttc 300  
 ctgtctctca tgccttact gcagcatctt ctatcagcta ctagttagctt acaatagtca 360  
 tcatnagtag cagcaggctc ccccttcaaa catgtacata c 401

<210> 15058



<211> 436  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15058

ttagacttga atgtgtttg attctatctt gatcaattga gttgntcttt gattctatct 180  
 ttaccacttg agttgtcttt tgattgatct ttgagctttt tgtcatcacc ttgtgcatca 240  
 tcccttgcta tcatcattgt tatcatcaaa acatctttga atgaatcttg attcaccatg 300  
 aagctttgct tctacatcta gccaaatgag cctaccttga attaattctt ttgatagccc 360  
 ctgtgaacct atgttccctt ttctttgntn tgaagctcat tacaagcctt aagtgaaaaa 420  
 ccattgatct acccta 436

<211> 15059  
 <211> 293  
 <212> DNA  
 <213> Glycine max

<400> 15059

cgacaataag ttttaactcg gatgtcttat taagccctgt aatatatoga gagcgtcgaa 60  
 gttgaaaacg gaagctctaa gaaaagtcca acaacaataa cttttaactc gaatgtccga 120  
 ttgagtcctg taatatatcg aaacgctcgt aatttaaaac agaagctctg agcaaattca 180  
 aaagacaaaa acttttaact tcgatgtcct attgagccct ataatacatt gagacgctcg 240  
 atattgaaaa cygaagctct aaaaaaagtc aaacgacaat aactcttgac tcggatgt 298

<211> 15060  
 <211> 325  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15060

attctatctt cctaagatgg tgtcagaccc agtcaccctc attaagaact agctcttttc 60  
 tctctctatt gcctttagtt gaatacactt ttgtttgggt ttctatttgg ttcttaaccc 120

tttcatgcaa cttctttaca aactctgacc tagattacca ttctttatgt ataaaagaag 180  
 tgttcagtgg gagaggaatg angtctaacg gtgttagggg attgaacca tagacaacct 240  
 taaaaaggga ctgcttgatg gttctatgaa ccccccgtgt gtaggtaaat tcttcatgag 300  
 aaataactt atataactt tttat

<212> DNA  
 <213> Glycine max

<23> unsure at all n locations  
 <400> 15061

gtaaaagtat tatcgtttga ttttgcacag aaccattttt tccaattcga ggttcacgat 60  
 atactacgag acacaatcag acatcccgag aaaaagnttt tgcgttttga agttgcacag 120  
 aacatctgtt tccaatttcg agcgtctcga tatattacag cgttcaatcg gacatccgag 180  
 taaaatgtta ttgtcatnng aatnctctac gagcttccat tctcgatttc gagcgtctcg 240  
 atatactacg gcacacaatt ggacatctga gtaaaaagta ttggcacttt gaattttctca 300  
 gaacatctgg tttcaatttc gagcgtctca atatctcag ggactcaatt cgacatccga 360  
 gtaaaaagta t 371

<210> 15062  
 <211> 343  
 <212> DNA  
 <213> Glycine max

<23> unsure at all n locations  
 <400> 15062

atgaagetct gataccactt gntatacaag ttgccttaga tatcttaaga agggnggggg 60  
 ggtgaattaa gaaattccaa actactccc caattaaaaa tctatttcac ttttatttca 120  
 agttatgaat tcccttaatg acaatctctt taaatattga ttcataataa acaatttgaa 180  
 tatgaatata aagcaataat aaataaagga gattaacgga agagaaagtg caaacttaga 240  
 attatactgg ttgggcacaa ccttctgtgc tacgtccagt ccccaagcaa cccgcttgag 300  
 agttccacta tcttgtaaat tctttttaca agttctaaac aca 343

<210> 15063

<211> 400  
 <212> DNA  
 <213> Glycine max

<400> 15063

ttatgtttatg tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt  
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt  
 ttacagactc ttgaagatcg tggagtctac cttctctctc ttatgaaact gtgataactt 240  
 ttgagccacct tctatagggtg tgttcacggg attgcaatca agcatattaa atatcttaac 300  
 attctcttttg tgaacctatc ttgtgagaca aagataccat tctccgtttg ctccacttgc 360  
 attccacagaa atatgacatg agtcccatag tctgcatatc 400

<210> 15064  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<400> 15064

tctggcatgg aatgaacttg caattgcctt ctttatgcag caccattaca acaactgatat 60  
 ggctcctgat cagaaccaac ttcagagcat gaccaagcgg gaatatgagt ccattaaaga 120  
 atatgctcaa aggtgggagag acctagcagc ccaagtcgtc ccacctatga ctgagaggga 180  
 aatgatcacy attatggtag atatgttgcc tacgtttctac tacgagaagc tgataggata 240  
 tatgcgggct aactttgcag acctcatctt cgctggagaa agaatcgagt ccggactgag 300  
 gaaaggcaag ttggaatatg cctccaacgc tgcccccaac aataacagaa gagccccagt 360  
 ggtgggcaca cgataaaagg aaggagatac ccagtggtgc accaccgccc caacat 416

<210> 15065  
 <211> 329  
 <212> DNA  
 <213> Glycine max

<400> 15065

atggatcacc taaatagggt aatttcaaaa gatctagttt ttggatggcc taaattaaat 60  
 ctaaaaatat tgtttccacc actaaacctc tgcaataatt acacatggat tggttggac 120

catctagggg catgagcttt ggtggaagtt actatgcatt agtaattggt gatgattatt 180  
 ctagatatad ttggacttta tttcttactc ataagaatga tgcatttcat gcatttagaa 240  
 gaattgcaaa agtcattcaa aacaaaaaga atctcaaat atctccatca gaagtgatca 300  
 tttcttca ttt caaaa ttgatttt 360

<212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15066

gggagaacta ccataaggga tagagccttt gtgctaagtg catgttnaga aacaagccag 60  
 acaaggcaag taaggttgtg agaaacaaga caagatcggg tgcacaaggg tactcacaat 120  
 angauggtat agactataca taaaccttgg ttcattgtac tegtctaaag caatacacat 180  
 tatactctca ttacagctc atacaaaaat gagactatat caaatagacg taaaaaggca 240  
 ttcctcaat 249

<210> 15067  
 <211> 354  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15067

gcttatctca tgtgggtaca tctcaataaa ttcattcttg gagagcttca tggttttggt 60  
 tctcagggga aggatcattg cagatgcggg aagcatgacc acggatctcg cttagaggtgc 120  
 tgaataggtt ggtgatattt ttgggatcat tgcctgctgt acgaagattg agccggatga 180  
 tccanattggg tacatgctag agaggtaat tggtaaaata gagcttcatt acgtgcattt 240  
 tggtaacctt gctaggccta atgttgcctat ctctgaaaat ttctcgatga anattgaggc 300  
 acggaaatca acagcattgg tggggcaag tgtgtccggg aaatcgacca tcat 354

<210> 15068  
 <211> 313  
 <212> DNA  
 <213> Glycine max

<400> 15068

agcttggtatc tcacagttgc ctctctcctt cacggtcagg tgacaataat aaatttacia 60

acagatgagt actactacat tattattatt attataatta ctgatattca atgattaatt 120

atggtggtt atggtggtt atggtggtt atggtggtt atggtggtt atggtggtt

attcgtgtct ttt

<410> 15069

<411> 442

<412> DNA

<413> Glycine max

<423> unsure at all n locations

<400> 15069

acaagcagct gttgcaaaca ttcagaagat ttaagtatat athtaataata gaactngtat 60

aaaagaaaaa tagacaccac cagataatta agtgggttcaa ctntggcata tgtgcaaattg 120

caaaactagct accaattaag attctcgaca atcctcanag caacatcaca taaacacttc 180

aaaccatcct ctctgggagc aagctcagta ggataaacca aaccggggtg gagtttgaac 240

aagtgtgtgac aaaacattgg gtaatcagaa gctgcagtga tgtgcatgga agcatagtca 300

catgcctcat tagccaaatc atgtgcagaa gcttggaggg catcactggc atacttgtac 360

ttttctacac actccttcag caccctttta aggtggaatc cttgttgcag tgcaagcaac 420

tgagaagaaa atagagagaa gt 442

<210> 15070

<211> 303

<212> DNA

<213> Glycine max

<400> 15070

agggaactgaa tcacacattc gagtaaaaaag ttcttatcgt tagaatacgc acagaacttc 60

ggtgtttccat tctagcaac tcgatatatt acgggaactca atcagacatt ccagtaacaa 120

gttattgtcg ttgaaatggg gtcagagctt cgataatcaa ttctgacgt ctcaaatat 180

tacgggaactt actcaacat ccagtaaaaa cggcattgtc gttgaaatag actcaaaact 240

taggtcttca ctttcgagcg tctcaacata attctggact caatcagaca tccgagtaaa 300  
aag 303

15071  
100

<400> unsure at all n locations  
<400> 15071

gtttaaagtg atttttctaaa tggcttaatt caagaagaag tatatgttga acaaccacca 60  
ggttttgaaa tattggataa cccaaatcat tgttataaat tgaaaaaggt nttatatggg 120  
cttgaaacaa gccctaggg cttggtaaga gcgcttaagt aagttccttt agaaaaggac 180  
tttctagang anagtggatc tattctctta taaagagaaa acacatgata tttactagtc 240  
aaaatatgtt atgacattat tttggacac taacaattgt gtgcaggaat tctcatgac 300  
atgcaagtga gttgaatgtc atgatggaaa ttattttctc ttggataca 349

<210> 15072  
<211> 383  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15072

gcagcatcta tgtagtgan ggctgtgatt caccacangg ttcttcgag nttgatccc 60  
acaatcaagg gggaccaca aaatgttttt ctcaagcact gcgagcatct tattgatcct 120  
atcagcaata tcatcacttg gtggtattct cggagagtga atgttataaa ctccgggggc 180  
aattcctgct ccatacttaa ctcttcaca gaacactgac aggagctctt cttctgagcg 240  
agaattttcg atggtgatca catacacatc catatcaatg atcgagtgga tgatgtcatt 300  
qaaatttagag taacacatgt gcggtgtggat ctgtcgattg tatagaatac aaaacatatt 360  
atattttgat ggaatgcgtt cta 383

<210> 15073  
<211> 324  
<212> DNA  
<213> Glycine max

<400> 15073

agttttaatca ttcaatttcg accgtctcga tatattacgg gactcaatca gacatccgag 60

taaaaaagtta ttgtcgtttg aatggctca gaggttcaaa attcaatttc gaacgtctcg 120

ataaaaaga taltgtcggg tgaattttat cagagcttca aatttcaatt tggagcgtct 240

cgatatatna cgggactcaa tcag 324

<410> 15074

<411> 316

<412> DNA

<413> Glycine max

<400> 15074

agcttcttat gattgtttgt tctaatttc totacaattg catcacctct caatgagctg 60

gtgaagaaga atgtggcatt tacctgcggt gaaaaacaag agcaagcctt tgctttgctc 120

aaagaaaagc tgactaaggc acctgttcta gctcttctcg acttttctaa aacttttgag 180

ctagaatgtg atgcctctgg agtgggagtt ggagctgtat tgttacaagg tgggcaccat 240

attgcttatt ttagtgaaaa acttcatagt gccacctca actacccac ctatgataaa 300

gagctttatg ccttaa 316

<210> 15075

<211> 387

<212> DNA

<213> Glycine max

<400> 15075

ctgcatttta ataatatata ataagagaac tatgactatg gaagaatcta ttcattgttc 60

ctttagatgag tctaattgta ttcttcaag aaaggatatt ttagatgata ttgcagaatc 120

tttagaataa atgcataatt atggacaaga ttctaaagga aaagggaaaag aaagcaatga 180

agatcctcca gaagaagcca aatcaaatga tgaacttcca agagaatgga aagcttcaag 240

agatcctcca cttagacaac ttatttggtga tatctcaca ggggttaaca cttagacatc 300

tcttaaagat g'atgcaata atatgctct tctgtctatg attgaacctt caaatctaaa 360

tgaagccata atagatgate attggat

387

<210> 15076

<211> 403

<212> DNA

<213> Glycine max

a gcttcacaa ttaatttoga ggcgtctcgat acgttaacggg actgaatcag acatccgagt 60  
aaaaagtatt atcgtttgag ttgctcagag cttaacattc aatttcagcg tctcgatata 120  
tgaacgggact caatcagaca tccgagtaaa aagttattgt cgtttgaatt ggctcagagc 180  
ttcaacattc aatttcagag gtctcgatat gttacgggac tcaatcagac atccgagtaa 240  
aaagttattg tcgtttgaat ntgctcagag ctccaacatt caacttcagag cgtctcgata 300  
tattacggga ctatatcaga cattcgagta aaaatatatt gtcgtttgaa tttgctcaga 360  
gcttcaaat tctatttoga ggcgtctcgat atattactgg act 403

<210> 15077

<211> 368

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15077

cgacaataac attttactcg gatgtctgat tgagtccegt atatatcgac acgctcgaat 60  
tgaatgtnga agctctgagc caattcaaac gacaataaat ttttactagg atgtctgata 120  
taateccata atataacgag accctcgaaa ttgaatgggtg aaactcttga ccaattcaaa 180  
cgaaaataac ttttactcgg atgtctgatt gagtcacgta atatatcgac atgctcgaaa 240  
ttgaatgtga actctgacca attcaacgac aataactttta ctcgatgctg atgagtcctg 300  
acatatcgag acgctgaatt gatgtgagct ctaccaatca acgacataac tttctcgatg 360  
ctgatgat 368

<210> 15078

<211> 345

<212> DNA

<213> Glycine max



<400> 15078

agcttgcttt tacggagttt tccgactatc ctctcgtgtg gtggatcaag ctacaaaagg 50

agagagcatg aatgaccag ccaatggttg atacatggac ggagatgaaa aagatcatga 120

aaaatatga agagatgag gggttaata tggctggat tctaatggt tgcactaatg 300

atatcgtga tattgttgag ctgcaggagt ttgttgaaat ggatg 345

<210> 15079

<211> 458

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15079

tgagacaact tccctgagaa gctagatctt agctacacac ttcctctca taactatgct 60

cacctccttg agaagcttcc ttaagaagat tctaaagaa gctagagctt agctacacac 120

acatctctaa tagctaagct cacctccttg agatgagaag ctagagctta gctacacacc 180

cctataata gctaagctca ccccataac aaaatacatg aaaatacaaa aaaattccct 240

actacaaaga ctactcaaaa tacctcnaaa tacaaggcaa aaacctata atactagaat 300

gaccaaaata caaggcccaa acgaaggaga aacctattct aatatttaca aaaataagcg 360

ggctcatact tagcccatgg gctcaaaaac taacctaatg atcatgagaa ccttagggcc 420

ttcccttgga tctctggccc aatctgcttg gagtcttc 458

<210> 15080

<211> 431

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15080

attgtaaaaa tagaaagctt ttttgaaaca cgtaattaat atattttttg tattaccaat 60

ttatgtatat tgcattcttt ggttaattcc tctggcttta atcttctttt gggtattggt 120

tgtaagctct taactgctg ttttaactga atgcatagat cttaacatcc ctgaactact 180

ttgagaaaaac aaatagaatn ntagttaaaaa attacatant tegttttagt taaaattatt 240  
 ttttatgtat ggttggaat gacttggtat anctcatttt gttnataaaaa aatattttatt 300  
 ttgaacaaaa taactaanaa tatttaatat aanattaaat ttaaataatn ntgttcacat 360

<210> 15081  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<22> insure at all n locations  
 <400> 15081

gtctcogttg gctttctcca gtatcttctt ctgcacactg taccogaatn tgccgtcgcp 60  
 ggtctccctc cagagggagt cgatggccct gagggcgctc toggagatga acttcacctc 120  
 ctagaagaag acgtagccgc gcttctgtgc ggcttcgcca gcaagcaca tgaggagacg 180  
 aacggtctcc tcctcggcca gctgaaagtt attggtggag agatggtggc ggaggaggtc 240  
 caaggacagt gtygtttggg aggtggtgg 269

<210> 15082  
 <211> 274  
 <212> DNA  
 <213> Glycine max  
 <400> 15082

atggatccaa acccagtcct tctcattaag aactagctcc tttcttctc tattgccttt 60  
 agttgaatac acctttgttt gttctctat ttggatctta acctctctat gcaacttctt 120  
 tacaactct gacctacatt ccccttcttt atgtataaaa gaagtgtcaa gtgggaaggg 180  
 aatgaagctt aatggtgtha cgggattgaa ccctacaca acctcaaat gagatggctt 240  
 ggtggttcta tgaaccttc tattgtaagc aaat 274

<210> 15083  
 <211> 349  
 <212> DNA  
 <213> Glycine max

```
<223>      unsure at all n locations
<400>      15083
```

agcttattgt ctagaatggg catagatgaa cccaactaga ttaattgccc ttctaattgt 60

cttccctatc aaggggaagct taccaatgtc ttcaagcctc aaatcaatac aatgggatgc 120

[illegible]

cttcanaaac attgtaccag cttagaagtt aagcaaaaaa ttaatgatg 349

0110 > 15734

441 309

<012> DNA

<113> Glycine max

4400 15034

agcttctcta tatattatgc acctgaatca gacttccgta tgaaaagtta tgaccatttg 60

aatttctoga gaqettccgt ggttcaattc caagcttctc gatataattat gcgcctgaat 120

tggacttcg tctgacaagt tatgacaatt ttaattttct gagagcattc gttgttcaat 130

t.t.c.g.a.g.c.g.t.c t.c.g.a.t.a.t.a.t.t a.t.g.c.g.c.c.t.g.a a.t.a.g.g.a.c.t.t.c c.g.t.g.t.g.a.t.c.a g.t.t.a.t.g.a.c.c.a 240

t.ttgaatttc tgcacagctt tcgttggtca atttcgagcg tctcggtata ttatgcgccca 300

qaatcggac 309

<210> 15085

<11> 206

<012> DNA

<4.13> Glycine max

<223>        unsure at all n locations

<400> 15085

atcaatggtc ttattctaaa gctaactaat tccgccacac nnettgatat atagngcgcc 60

tgaagcagac ttctggcaga naagacatga cbatttgaat ttctccagag ctttcgttgg 120

tcaatttga gcatctcttt atattatgca cctgaatcgg acctgcgtgt gacaagtcat 130

gaccattttaa attttctcaag agcatt 236

4210 15086

<211> 386  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15086

agctcaccac aatgacana aaacatgaaa ataaaaaaga agtccttatt acaaaagacag  
 actcaaatgc cccgagatac aaggctaaca ccttatacta ctagaatgga caaaatataa 240  
 ggcctagagc aagganaaac ctattctaatt atttacaag ataagggggc tcaatacttag 300  
 cccatggggt cgaaatctac cctaaagctc atgagaaccc tanggctnt ccttggatct 360  
 ctageccaat ctacttggag tcttct 336

<211> 15087  
 <212> 461  
 <213> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15087

ntactatgca gagaatatcc aaggaatata ccttcactctg acttatcacc aaatattcct 60  
 aagttatctt tccattatt caatacaaaa catttacaac caaagatatg aagggtgtgag 120  
 atgtttgggt ttctgccatt gaacaattca tatggagttt tctttaaaat gggctcttatt 180  
 aaagccctat ttaaaatgta gcatgcagtg ttaaggactt cagcccaaaa gtattttgga 240  
 agaggagtat catttaataa agttctagca atctcttcca aagatctatt tctcctttca 300  
 acaacaccat ttgttgagg ggttcttggg gcaaaaaagt tatgtccaat cccatgctta 360  
 tcacaaaata ttcaaatte ttattttca aactcaccac catgatcact cctaatagat 420  
 ataatcttta gatttttctt atattgaatg atttttgcaa g 461

<210> 15088  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15088

gcttgttaggc ctaggatctt cttcatcaat gtattccctt gcttcttggg agatgaatgt 60  
 ctgctgaatg gagaaaggaa gagagagagg agacgccact tcaaggagaa gatgagtcta 120  
 caagaagctc accaccatac gagggcatgg ataatagctt ggaggaagaa agagatgaat 180  
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt  
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt  
 ctaagtgtca caaaaattg gagggaaatt caaatttcac ttgtatttga aattgaattt 360  
 gtggagccaa accttggagg caaaatttca ctaattatga tcagtgaatg ttagttatg 419

<210> 15039  
 <211> 295  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15039

ttcttgtata taagcatgat tgggagctta ctatatttaa cagctagcag acctgacatc 60  
 acctatgcag taggtgtttg tgcaagatat caagccaatc ctaagataag tcaattgaat 120  
 caagtaaaga gaattctgaa atatgtaaat ggcaccagtg acctatgggat tatgtactgt 180  
 cattgttcag attcattngc tgggtgggtat tgtgatgctg attgngctgg aagtgcaaat 240  
 gacagaaaaa gcactttctg tggatgtttc tatttgggaa ccaatcttat ttcac 295

<210> 15090  
 <211> 442  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15090

tagtagggaa tctatccttc ctaagatgga gtttaaccca ttcaccccca ttaagaacta 60  
 tctctttttt tctttaattg cctttagttg aatacacctt tgtttgttcc tttatttggc 120  
 tcttaacctt ctcatgcaac ttctttacaa accttgaact agattccctt tctttatgta 180  
 taaaagaagt ttctagtggg aggggaatga ggtctaaagg ttttagggga ttgaacccat 240  
 agacaaacctt aaaaggggac tgccttgggg ttctatgaac cccctgttat aggcacaaatc 300  
 tacatgagga agctactcat ccaagactt atgggttgcct ttcagaanag cctttanaag 361

ggtggataaa gacctattca ctacctctgt ttgcccatca gtttgtggat gacaagtggg 420  
 agagaaaaca agtttagttc ct 442

<210> 15091  
 <211> 433

<213> unsure at all n locations  
 <400> 15091

agtttgattt ttatgagtna gctngggaaa aggacaagct aacttggaga aaccttctat 40  
 gaattcttag taatatctcg cttaaaccag aaaaattctg atctcaaaa caaacttagg 120  
 actctaccac ttaagaacaa cttttatcat acagggatct acaactatac ctacttagga 180  
 tatcacatgt cctaagaaac taactctctc taaccaatac tggacttggg acaacttact 240  
 gtaaagatgc tggctcccaa gggcttgcaa gacaatctct tagtgcctct catgcctctc 300  
 ctatgtgctg gagtatacca aaatatcctc tatgaatact accacgagct atc 363

<210> 15092  
 <211> 433  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15092

gattcctaaa gaagctagag cttagctaca cacactctct ctaatagcta ttctgcctc 60  
 cttgatgtga gaagctagaa cttagctca cacaccttct taatagctaa gcacacctcc 120  
 tagagatgag aagctagagc tttagctaac acccctata atagctaagc tcaccncat 180  
 gacaaaatac atganaatac aaaaaaagtt cctactacaa agactactca aaatgcctcg 240  
 aaatacaagg ctaaaacct atactactag aatggccaaa atacaaggcc caaatgaagg 300  
 gaaaacatat tataatattt acaaagataa gtgggctcat acttagccca tggactcaaa 360  
 atctacctta aggtcatga gaacctagg gcctccctt ggatctctgg ctcaatctac 420  
 ttggagtctt tta 483

<210> 15093  
 <211> 437

```
<C12>      DNA
<C13>      Glycine max
```

1. *Pharmaceuticals* – The pharmaceutical industry is a major contributor to the U.S. economy, with sales exceeding \$300 billion in 2010. The industry is heavily regulated by the FDA, which oversees the safety and efficacy of drugs. The industry is also heavily scrutinized by Congress and the public for high prices and potential conflicts of interest.

atctgaaatga caataaagat ttctctgggat gtctgactga gctccgtaac atattgagac	247
ctctgaaata gaatgttgaa cctctgagct aattcaaacg acattaaact tttactcaga	300
ttctctgattg agctccgttaa cctatcgaga cgtctgacat tgaacgttga agctctgagc	360
gcattcaaac gaccataact ttatactcgg atgtctgatt gaggtctgtg atatctcgag	420
agctctcgata ttgaatg	487

<10>	15094
<11>	173
<12>	DNA
<13>	Glycine max

```
<223>      unsure at all n locations
<400>      15094
```

ggaactcattg caaatgctgc atcctcagct gacatgaaga taagccacta tggattgctt 60  
cttagaactc caagatattg gtgttgacc atactgaat atgcaacta tagtactgc 120  
tatgtaattt tggactcacc cccaatcgc atcagtatat ccactaatt ctt 173

```

<C10>      11095
<C11>      318
<C12>      DNA
<C13>      Glycine max

```

```
<213>      unsure at all n locations
<400>      15095
```

```

agctnigtgtt tcttttggtc cggaaacatt tcttttctca tgtgcaccca aacccaatct    60
ccggggttoga agacaacatt cttttctcct ttgttgggct gtttagcata gcttttattt   120
ttctctctaaa ttgcatcttt gactctctta tgaagctttc tcaatagtc cgccttttgt   180
tgactctctt tatgctttaa aacagaaaac ctatgcacaaa gatcaagagg agttaaattga   240

```

ttaaaaccat aaacaacttc aaaaggagaa caattagtgg tgccatgaac agctctattg 300  
 taagcaaat caacatgggg gtaacaaga ttocaaat 353

<210> 15096

<211> 335

<212> DNA

<213> Glycine max

<214> 15097

gtgajaagna gtctattgct ntctctctcat atccattcat ggtttgtgat attataatga 60  
 gagcccaaca tgataatcct gttgtttgtgg gtgatgccc aaacattga atacctnta 120  
 tgatagctcc acaattgcag tacatgtcaa taattatggt gagaaraacy acattcaact 180  
 caaaattccc ctttttacat aatcatgaac ccactcccca tgtagaagtg caactaagtg 240  
 agcataaaca ctttaacaad ccatcactgt aaattcacta ggttgaaccc ttogtctctg 300  
 catcttgogg aaaagctcca atgctcccat aagctcttta ttcctaacc atccactaat 360  
 catagaatnc taagtaactc taattcttgt aggcattgta tcacacaacc ctctagattt 420  
 atc 423

<210> 15097

<211> 335

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15097

cgaacaacaa taacttttca ctcggaagnc tgattgagtc ctgtaatat tctgacgct 60  
 ctatgntaa aacccaagct cgtagcatat tcgaacgaca ataacatttc actcggaagt 120  
 cctattgagt cctgtaatat atcgagagtc tcgaattata gaaccgaagc tcttagcaaa 180  
 ttogaacgac aataacattt cactcggaag tccattgag tcccgtaata tctctgagc 240  
 ctogaatttt ataaccgaag ctctagcaa atcgacgac aataacattt cactcggaag 300  
 tccattgag tcccgtaata tctcgagag ctoga 335

<210> 15098

<211> 326

<212> DNA



<213> Glycine max

<223> unsure at all n locations

<400> 15098

ttctctgttg ganaactnga tgccttggtc aacctagtga cccagcttgc catgaatcan 60

tttataata gactttct to ttacttcaaat taaatcaact aaaaataaa tgaatttttt 74

agcaacagat acaatccagg ttggagaaat catccanac tgagatggac aagtctctga 310

caacaacaac agtctgtccc ttcttt 326

<210> 15099

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15099

agctttttta tattttaaatt caaattttcta aaagctgtga caaatagttt aaacttcttg 60

taategatta cgtaccttgt gtaategatt acaggctttt aaattcaaat tcaaaatttg 120

caaatttggt tagaaatcaa ttttaaccact ggtaategat taccagagac gaaatatcat 180

atttttgaaa atatgattgt tcttaaaaaa cttttgtaaa atatttcttt tagtctgtg 240

cagcatcaat taagggaatt tttctaagat cctaactaag tacatcatte ttcttgcatt 300

tctaaattct tgaactgaat cgtgtgcac tttggcatca tcacaactte atatcatata 360

tatttttaca cataatttca ttaaaaaaat aagtgtatat ttttaaaata aataacataa 420

actga 425

<210> 15100

<211> 448

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15100

ttctttcaat ttccatgath tctcttgac tatacatttt ttagttttaa cacacaaact 60

cgtgatttat tcaaacaaaa agga'gaaat ttggagcaag caagcaaaaa acttacttgt 120

tgggtggcata gttgacaagg ttggaaaaga gaatgccaaag ggtgatattc aactggaaaa 130  
 gtatatccaa tgcctgcacgt attctttgaaa gtgcgatctt tgaaagaaaa actggacaaa 240  
 cctggttgta taaaaaaaaa ttaaaccac acagataagt gagttcgaag aagcaattgc 300  
 atgaacaac attttgacct atttatt 444

<210> 15101  
 <211> 450  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15101

agctncatna ttatgcttcc tccagaagct tctcgtggc tgccttgaga agctttctca 60  
 agaagcttct ttgagaagct agatccttat ctatccacac cctctatta actaaattaa 120  
 ctctcttaaa aataattacg gatgaaaata acgcaacaaa tatccaaaca tcaaacataa 180  
 ttactaatag tatatagata tatatatatc aggytggtac aactctccca cctttttaga 240  
 aatttlogtcc tcgaaattta ccttactcaa acaaggatgg gtgagcttct cacatctgac 300  
 ttctaatte ccatgtggca tcttctcttg atgcacctcc ccagatcacc ttgaaccaaa 360  
 gaatctctnt cctctttaag tgtgttgtgt gcttatcttc gatctcaaa tgcactgttt 420  
 catatgtcac aatctcttc acttgtaac 450

<210> 15102  
 <211> 233  
 <212> DNA  
 <213> Glycine max  
 <400> 15102

tgaaacctgt tgaaatgaga accttggaga aatttttaaa attgtgacca aatttcagaa 60  
 catggtttct tttagacatga aggttttctt ttcaaagaaa acaaatgtg tgtgcttaaa 120  
 tggctacta gaaatttgc tggtttgtaa gcaatgaag gaggtttaat ggggacattt 180  
 ggggtccaaa agactctaga aacattacaa gaacatttt attgacctca tat 233

<210> 15103  
 <211> 359  
 <212> DNA  
 <213> Glycine max

atataaaccg gaccaaaccg attgcaaata tgaatttgcg ggggaagaaa ggggtagtcg 180  
 ctataagtgt aaaaccaaga accggatcag aaatgtagaa tgtctccctg tgatacttgt 240  
 ctgagaggagc attgagagca aactctcttg gcaaatctgg attagccaag aacaaaacgac 300  
 cgttaagcaac agatcagccc tgtcttcagc tactgcattg atcccatctt gogataata 359

<210> 15104  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15104

agctagtgtt ttcttacctg gatgaggatg tcccatatgt gcttataact ggactgatcc 60  
 atttgcttcc aaagtctcat ggctttgcaa gtgaagaccc gcacaaacat ttgaaagaat 120  
 ttcaacattgt ctgctccacc atgaaacccc cagatgtcca agaggatcac atattttctga 180  
 aggcinttcc tcactcatta cagggagtgg caaaggactg gctgtattac cttgctccaa 240  
 ggtccatcac gagctgggat gaccttaaga gagtattctt agaaaaaatt ttccctgctt 300  
 ccaggaccac agccatcagg aaggatatct cangtattag acaactcagt ggagagagcc 360  
 tgtatgagta ctggga 376

<210> 15105  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15105

ttctgccttc ttctatcttc agatgggaa tgcctctaac agcactcttg tcaatgattt 60

tcttcacatgcc tattaagtgc agatgtccaa atcctntgatg ccatattctg acttccacttt 120  
ctctggagaaa tagacatgtg gaggagtaac tggttctcttg atgtgtccat aggtaaaccgt 180  
tgtcccttga tcatactgcc ttcaacagaa ctccactctt ctcatctgtc accaagaatt 240

...  
tcttcacatgcc tattaagtgc agatgtccaa atcctntgatg ccatattctg acttccacttt 300

<210>	15107
<211>	390
<212>	DNA
<213>	Glycine max

```

1400> 15107
catggaagga cttggcaact gccctcattt ggcagtabca gtacaataca gacatggctc 60
ccgatcggaa ccagcttcag ggtatgacta aacgagagca tgagtcattt aaggaatatg 120
cccagagatg gagagtgaaa ttctgatacc aggggacaga tctctgacag gatgtcacga 180
catcacgtt cagaacatgc agattgtatg tctccgtatg aacagattaa acaagtaaat 240
aacacaaag agattgtaac cagttcggtg caccaccctt acatctgggg gctaccaagc 300
caggaagaaa atccactctt aatagtctta gttcaagctt taacaacccc tgtttacaa 360

```

ettetcaact aaccactacc cgtgcgatct

390

<210> 15108

<211> 391

<212> DNA

<213> Glycine max

ttatagagt ctggaatcc taaggaaacac ttattggaca tccgagtgan aagttattgt 60

cgttgtaatt tggtcagaac ttctgtttta naatacagagc gtttcogatat attacgggac 120

tcaatcggac atctgagtta aaagttattg tggttggact ttctcttagag ctcccgctnt 180

caacttcagc cgtctcgata tccacggga cccaatcgga catccgagta aaaagttatt 240

gtcgtttgaa tntgctcaga gcttctgtnt tcaattacga gcgctttgat atccacggg 300

acacaatcgg acatttcagc caaaagttat tgcgtttga cttttcttag agcttnogct 360

tacaatttcg agcttctcga tatattacag g 391

<210> 15109

<211> 387

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15109

actcttgctc gagaatggag aattgcacta agcaatcact acgcataget ctcttactcg 60

aaggtggagg acacatgaac gagaacacaa ttcattggnng ctccgaaaag ggggttgagaa 120

tggagaatta cactaagcaa tcaactacga tagctccaaa ctggaaggtg gaggacacat 180

gaacgataac gcaattcatg gtgctccgac aagattgaga atggagaatt gcactacgca 240

atcactacgc atctctccaa acgcgaaggt ggaggacaca tgaatgaaaa cgcattcat 300

guggtccga aaagattgag aatggagaat tgcactaac cactactacg catagctcca 360

aaetogaagg tggaggacac atgaatg 387

<210> 15110

<211> 218

<212> DNA

<213> Glycine max

<223> unsure at all n locations  
 <400> 15110

tactcaaggg acttgaaatt caagctocaa aaactaaccc aaggcaacaa ggggggttgag 60

actctctc cctctctc cctctctc cctctctc cctctctc cctctctc cctctctc

<210> 15111  
 <211> 353  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15111

catccaattt cgagggtctc gatatatgac gggactcttc tgacatccga gtaanaagtt 60

attgqcggtt gaatttgcct agagcttcgc tattcaattt caagcgtctc gatataattc 120

aggactcaat cagacatccg agtaaaaagt tattgtcggt tgaatttgc cagagcatca 180

agattctatt ccagacttgc cgatatatta tgggattcaa cgggacatcc gagaaaaaag 240

ctattgtcat ttgtatttgc ccagagcttc aacattcaat ttcgaggggc ccgacatatt 300

acgtgactca atcagacatc cgagtaaaat ggtattgtgc ttttaatttg ctc 353

<210> 15112  
 <211> 233  
 <212> DNA  
 <213> Glycine max

<400> 15112

atagcatatt gctgacacaa taatctctc tatatagtta ctgagaatca ttgtgtctgc 60

aacacaaatg gaatccaggt catcacaatc aagatcagtg gctgcaagca ctcccatgat 120

atggetcttg ctatcttgaa ctgtgatcat ctccatctcc tcttccaatt gagacttcca 180

gctgacaaga tgtgatccat ctctctggggg cctgatgtct atgttgatg gga 233

<210> 15113  
 <211> 313  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15113

aaaatggtga caaactccac ataactacaa tgtaaaacat taacaagcca tcttgattcc 60  
 gatttttg atg actatg tcatctttaa agtgaagaa taatctat gtttttga  
 ttttttga ttttttga ttttttga ttttttga ttttttga ttttttga  
 tatattttct atgtgataac cctaaaggca cttctcttgaa gcatcatatg atatgcctaa 120  
 atcatcacat tct 313

<210> 15114  
 <211> 345  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15114

gcacatttgaa tttttcaaga ctttcgctg ctcaatttcg agcgtctoga tatattatac 60  
 tcttgaatcg gacctccgag tgaaaagtta agaccatttg aatntctoga gagcttccgt 120  
 tgttcaattt tgagcgtctc gatataattat gcgcctgagt cggacctccg agtggcaagt 180  
 tatgaacatt tgaatttctc gagagcttcc gttgctcaat ttcgaccgtc tcgatataatt 240  
 ataactcctga atcggacctc cgagtgaaaa agtatgacca tttgaatttc tcgagagctt 300  
 ccgttgttca atttcgagcg tctctatatg tgatgcgcct gaac 345

<210> 15115  
 <211> 353  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15115

acgacaataa ctgtttacat gcatgtctgt ttgagtcctg tcatatatcg agacgtctga 60  
 aattgaatgt tgaattctctg agcgaatcca aacgaacaat aacttttact cngatgtctg 120  
 attgagtcctc gtaatatatc gagacgtctg aattgaatg ttgaagctct gagcgaatcc 180  
 anacgacaat aactntntac tcggatgtct gattgagccc cgtaatatat cgagacgtctc 240

gaaattgaat gttgaagctc tgagccaatt caaacgacaa taactntnta ctgggatgtc 300  
 tgattgagtc cggcatata tcgagacgct cgaaattgaa tgttgaatct ctg 353

<210> 15116

tctacccaat ttctgatagt acttctgtaa gcccaatcca ggtggtagca aagaaacggg 60  
 gcatgacaat ctttcagaat gaaaagaatg acctaatccc aacaaggact ttcactgact 120  
 ggagaaatag catcgattac cacaagctca accaagccac gaggaagac cactttcttt 180  
 ttccttccat ggaccaaatt ttggataggc ttgggggacg ggcttattac taactcttgt 240  
 atggatactt tggatataat caaatta 267

<210> 15117

<211> 329

<212> DNA

<213> Glycine max

<225> unsure at all n locations

<400> 15117

gatscttcac ttccaggtga tatatttaat gatgtggtgg gcagcccata ctatgtagcc 60  
 ccggatgttc tgcganagcg ttatggctct gaggcagatg ttgggagtgc tgggtttatc 120  
 ctttacattc ttctgagtgg agtacctcca ttntgagctg gtgagatctt ttgtatttat 180  
 ttggacagtg taattatgac ctctattcat ataaatgtat gcctttcttt ttcttgatta 240  
 ttaattctcc ctttgtcttt gtgtggttca tatggttgtg tagaanacga acaacggata 300  
 ttgaacaag ttctgcgtgg tgatcttga 329

<210> 15118

<211> 314

<212> DNA

<213> Glycine max

<400> 15118

aagctacaaa aggagagagc atgaaatgaa gagccaatgg ttgatacatg gacggagatg 60  
 aaaaagatca tgaggaagcg gtatcttccg ccagcttact caagggactt gaaattcaag 120



ctccaaaaac taaccaaggg caacaagggg gttggggagt atttcaagga aatggtatgt 180  
 ctcatgattc aagcaaatat tgaagaagat gaggaggtaa ctatggctcg atttcttaat 240  
 ggtttgacta atgatatccg tgaatttgtt gagctgcagg agtttgttga aatggtatgt 300

<212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15119

cttcagacaa ctcccggtg ctggagctac ttcattttt ctgcatgggg cctatgcaag 60  
 ttgaaagcct tctaggatag acgtatgctt atgttgttgt ggatgatttc tccagatnta 120  
 cctgngtcaa ctntatcaga gagaaatcag acacctttga agtattcaag gagttgagtc 180  
 taagactcaa aagagaaaaa gactgtgtca tcaagagaat cactgagtga catggcagag 240  
 agtgtgaaga cagcaagttt actgaatact gcacatctga aggcataact catgagttct 300  
 ctgcagccat tacaccac 318

<210> 15120  
 <211> 325  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15120

atcctatctc cagacagccaa tgggtgagtc ctgtcccggt agtcccggaag aagaccggcc 60  
 ctacagtgat aaaaaatgag aaggaggagc taattcttac tggggtgcag aacagttgga 120  
 gagtctgcct tgacttatatg aggttgaacc aggttaccac aaaggaccat tntcccttgc 180  
 cattcatgga ctatagtctn gaacgaactg cangtaaate ccaactaact ttccttgatg 240  
 gttntcttgg ttatatgcaa attactattg ctccctaagga tcandanagg accacattca 300  
 cctgcacctt cngcaacttt gctca 325

<210> 15121  
 <211> 341



tacataaggt agttttctatt cagaggaact tttgtgggg ggggtggttct gaaacagcta 130  
 aaataccatg ggtgatctgg gatattgttt gtcttcccaa gactaaagga gggttgggga 240  
 tcaagaatt gtctaaagttt aatgaggcct tgattggtaa atggggatgt gatctggcta 300

<11> 15124  
 <111> 354  
 <112> DNA  
 <113> Glycine max

<10> 15124  
 agtttgcata ttggaatcag cgatgtcttt ctatgggggg caggataacc ctcatcaatt 60  
 ctgtcccaac agcctccctt atctaccttc tctctttttt cagaattcct aaaaaagtga 120  
 tacataaggt agttttctatt cagaggaact tttgtgggg ggggtggttct gaaacagcta 180  
 agataccatg ggtgatctgg gatattgttt gtcttcccaa gactaaagga gggttgggga 240  
 tcaagaattt gtctaaattt aatgacgctt tgattggtaa atggggaatg ggatctgcta 300  
 ataaccagaa tcagccttgg gctagagttt tgatgtccaa gtatgggtggg tgga 354

<110> 15125  
 <111> 273  
 <112> DNA  
 <113> Glycine max

<123> unsure at all n locations  
 <400> 15125

aaattaactc gaaagagagg tttctttaga tacaggggaa aaagtctctc tataatcgat 60  
 tctttctctt tgagtgaatc ctttagcaac aagtcttgtc ttatgtctct caatgttgcc 120  
 ttctaagttt ttctttgttn tgaagaccca tctacatctg atggctttta caccaacaac 180  
 caactcaacg agatcccaaa ctgggttaga tggcatagaa tccatctcat ccttcatagc 240  
 attataccac annattgatt ccttagaact cat 273

<110> 15126  
 <111> 362  
 <112> DNA  
 <113> Glycine max

[illegible]

Q110>	15127
Q111>	350
Q112>	DNA
Q113>	Glycine max

```

-423>      unsure at all n locations
-440>      15127

```

ttcttttctt	agtcgtctgt	aaggatgatt	gngtgttaga	aagcggcgat	gcctactgta	60
gactgttttt	ctcccatggt	tcagttgtat	gtaacttgta	tttctcttcac	agatggggca	120
tgcattgatga	ccctaacaac	tgtaacctgt	gagatttcca	tatgctggaa	agtcattaat	180
gttataaaaa	agcattgcac	gcatttcaaa	cgtctctttg	cgaaacgcac	catacactac	240
aacccctctg	tccacaact	ttctcagatc	ttcgaccaac	ggacttagat	aaacgtcaat	300
gtcaatttct	ggctgtcttg	ggcccgatat	catacataac	aacattctgt		350

<L10>	15113
<L11>	409
<L12>	DNA
<L13>	Glycine max

..400: 15128

agctttttatc	tatcctttttt	agctactaat	ttaacttttca	gtttgcgaatt	agatttttcaa	80
ctaaattttat	cgaatataac	ctatatctca	ttttaaaaaaa	tataaaaacaa	taaaagagca	120
tttgtttcat	aaaatctttt	tacattttat	acaaaaaata	taacaaggya	atatcatttc	180
cttgtattta	aaaaatcgtt	tggttacat	tttatattat	tgagaataat	ttttgaaatt	240

taaaataatt tagataaaaa ataaataaaaa agaagtttca gacgtattag acaataaatt 300  
 ctcacattct catgaaaata tcactttctc accttcttca tgggaatata aatattagag 360  
 aatataataa aaaaattata acattaatto tcaagaatca ataatacca 409

<223> unsure at all n locations  
 <400> 15129

ttctcttatt atgtctcatg antctactnt aaaaaacaga taaacatata tgggaatggt 60  
 aaactgatga cagtgcacct gaataaattt agaattgttaa actgtctact caattcatga 120  
 tgataatggt tatctttctt gtatttttaa acaattttat tactatgtaa atatattatc 180  
 aatgtgtaat ctattttaat tggcacatta gttttcattt tactcttact ctataaatca 240  
 gataaacata catgcaaaat tttttacaaa caacccgtgt gtaaggcaag gttgccaact 300  
 agtgracata tataaaatga gaagtgtggg gttagtcttg aaatataaac agaaatggat 360  
 ggggtattttt gggaaaaatt attttagaat aatg 394

<210> 15130  
 <211> 267  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15130

tctcaacaag agaccagagc ctccattcag agcttctttt atctatggga caatnggcta 60  
 cacagttaaa tcaacaactg tcccagaatt ntgacagatt accttctcaa tctgtccaga 120  
 atccccaaaa tgtgagtgc attacattga ggtcgagaaa gtagtgtcaa ggacctcaac 180  
 cagcaacatc tctctcctcc gcaaatgaac ctgcccactt tcactctact ccagaanaag 240  
 atgatgacaa aaattttaaag agtaagt 267

<210> 15131  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<400> 15131

agctgaactta tctcccatgg ctaccaacga tctgattcgg atcattctct tttcttgccg 60

ataacgggct ccacaattac catcctctta gtatatgtag acgacataat tcttacaggg 120

ctcctctctc cctctctctc cctctctctc cctctctctc cctctctctc cctctctctc

ctcctctctc cctctctctc cctctctctc cctctctctc cctctctctc cctctctctc

ctcctctctc cctctctctc cctctctctc cctctctctc cctctctctc cctctctctc

aaagcgcatt caaccccaat ggaattatca ataaaactac aaaagacctc gggttaacct 300

cttcggaacg agtctctctc ctctctac 338

<211> 15132

<211> 329

<212> DNA

<213> Glycine.max

<400> 15132

tggatgcaaa agtttattat gactatggtt atgatgacta caaatgatac acaagtctca 60

agagaatcct gcggtccata tgcctgttg agggaaggga caataaatct gcaccttg 120

actttcaaac cccaaaaaga ttgggaatc actacttcat aaacattctt gaagggaaag 180

acttgtagg ttctgacaat gttcttatta gccatgaatt acttggaag attacagagc 240

aggtgtggga tcatgcctct aatgaaaaaa tcttgtctgc ttcatttgc aaatctatga 300

ttaggatggg aaacatcaat gttcttact 329

<210> 15133

<211> 351

<212> DNA

<213> Glycine max

<213> unsure at all n locations

<400> 15133

agcttctata taaggttctt tcttaatatc tctacaattt catcaactct caatgagcta 60

gtgaagaaga atgtgacatt taccctgggt gaaaaaabaag agcaagcctt tgcctctgctc 120

anagaaaaagc ttaactaaggc acctgttcta actcttctctg acttttctaa aacttttgag 180

ctaaaaatgtg atgttctctg agtgtgagtt ggagctgttt tgttgcaagg tgggcacct 240

attgcttatt ctagtatuaa acttcatggg gccacctta actaccccaac ctatgataaa 300

gaagattatg cettaataag agcaactcga acttgggaac attaccttgt t 351

<210> 15134

<211> 338

10

gcttggata gaaggtgac catgagagtg ttggagctg aattaatcct cactgatcca 60

ccccaggaa tgggaggaac agtatagaag gcttatgaac tnttggaaaa caccaccaat 120

ggtcacatgc tgcacaatt ttcaaacctt gccaatctc aagttacctg aacctaaatt 180

actattgctg ttgaaatct cctaccaaga cagaaaaatc agtagaacta ggetngtatt 240

atgcttgtgt gatgcttcat tgtacttaaa gtaatacta gaatatatgt ctaacataga 300

tgcttggctg tacaatggtg catttattta ttaaatga 338

<210> 15135

<211> 405

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15135

agcttaattg cactattcaa tggagttgac aagaacattt tcagactgat caacacttgc 60

acagtggcca aagatgcatg ggagatcctg anaatcactc atgaaggacc tccaagtga 120

gatntccaga ttggcaactc ttggctacaa aattcgaaaa tctgaagatg aaggaggaag 180

agagtattca tgacttccac atgaacattc ttgaaattgc caatgcttgc actgccttgn 240

gagagaggat aacagatgan aagctggtga gaaagatcct cagatccttg cctaagagat 300

ttgacatgaa agtacttga atagaggagc cccacgacat ttgcaacatg agagtggatg 360

aactcatggg ttcccttcan acctttgagc taggaactctc ggatg 405

<210> 15136

<211> 370

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15136

agcttgagtc ttttgtaaat ggcgacattt atagcatgaa tagtgggtgtg tctaaccaac 60

aagtcataaa ctactttctgc ctgagaggta ccttagaggt actgggggtat tgaagatggg 120

tttgccttgc tttgcttctt ggtatcttgc cttcttgc tttgcttgc tttgcttgc

tttgccttgc tttgcttctt ggtatcttgc cttcttgc tttgcttgc tttgcttgc

atgataagca gtgtcctatc atagcttctg cccacataag cgaaagagtt ccgcgcataa 180

ggcacttatg 300

<410> 15137

<411> 209

<412> DNA

<413> Glycine max

<400> 15137

tgcttgcttt ctctggaagc tctaatagc tccacacta tttgggggtgg gccattctcg 60

gatggccttg attaactcac ggaccacttg gaccccatct ctaccaacta cacaacctga 120

gaagactata ttatctacac aaaaagtaca ctactgtata ttagcataca gggagttttt 180

cctatcgact gacataactt gcttgacat 240

<410> 15138

<411> 253

<412> DNA

<413> Glycine max

<423> unsure at all n locations

<400> 15138

tactcaagcc tgttacctcc ttcttcacta catcaagagg gaccttggtg tttcttctct 60

gnggctgnet aatgggttta gcccctctct ctaaaagtat ccgatgcata catgtgaatg 120

ggctaataac aggaatgtcc gccaggytcc agcctatagc cttcttatgc ttcttgagaa 180

ctgatgacaa ctctctctct tgcctatcaa caaggagggc agatataatt actggaaaac 240

tttgccterc atc 300

<410> 15139

<411> 376



<212>	DNA
<213>	Glycine max

[illegible]

```
<L10>      15140
<L11>      360
<L12>      DNA
<L13>      Glycine max
```

agccttgtta agtgcacatg ggggtgaatt caaaatgagg aattcgaaac tttntgtgaa	60
gaaaatggta ttaatcacia tttttctgct tcaagaactc cttaacaaaa tggagttggt	120
ttgagaggaa agatagattt ctttaggaat taacaagaac tatgctaaat gaaaaccacc	180
tacctaaata cttatgggtg gatttcattt gtacaacttg ttatgtttctc aatacaatga	240
ttataagacc gattntgana atgacacett atgagggtcta caaaggtaga agcctaaata	300
gacacatga aanagtcttt ggggtgtaaatt gctttgtggt aaacaatggt aaataatcac	360

```
.210>      15141
.211>      227
.212>      DNA
.213>      Glycine max
```

tgcgtgattgg ttcaacattc cagggtgtctt tgacctcttc acctttctaag atgttctctc 60  
 cccccaaggc acccttgcca aactagggac atctgtcata ggattcacc cccatgactt 120  
 tgcagatata atcttcacaa acaatgacaa ttacagccag tcatggcaca tggatggatc 180

tagcttctat gttgttgggt aggacatcta tttttattat ttatttta

227

<210> 15142

<211> 410

<212> DNA

<213> Glycine max

agctgttgtt caagatctct atttatctcc gaaaccacgc tgagcaagca tataacttaa 60

gaaagcccaa ctatctcagt tgtatgcttt tctgaagctt accttaaaatt aaaaacaatt 120

caagtgaat ctctggggcc aatccaccac ctcatctatg atcatcagc catcaaacat 180

tgcctacta ggaatgtang aaaattgaac tctgatata acagatcca agacctctt 240

catttgtgtg gacacaaact tagatatgat tctgtgaaga ctccctanta gtgataaggg 300

taaaaaaatt tgcacatagac tatggattct tcttcttttg aattaaagca atacatgaat 360

aaaccacaga tctgggaaga gaagcatnta ggtaaaattc ttgcacacat 410

<210> 15143

<211> 371

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15143

accttgetat cccatggaag ctctaatat ctcccacact ttttgggggtg ggccattctt 60

ggatggcctt gattttctca aggtccactt ggaccccatt tctaccaact acaaaacct 120

agaagactat atttatctca caaaaggtag acctctctat atttgcctag aggggtgttt 180

tctaaggac tgaaagaact tgcttgagat gtctaagtg atcatctang ctctactgt 240

acactaaaat atcatcaaaa taaacaacta caaatctacc tatgaaatcc attaagacat 300

gatgcataag cctcataaag gtgcttgggtg tgttagtgag cccaaaaggc atcactagcc 360

attcatacaa a 371

<210> 15144

<211> 365

<212> DNA

<213> Glycine max



gagagaaaat agaagcatcc caggataggg agaagagcta ttatgacoga aggacaaaagc 120  
cattagatatt tctagaagga gaacatgtng tttttaaggt ttctcctgta actggagtcg 180  
gaagagctct caaatctagg aagctgaagc ccaagtatct gggctcgtat caaatcttga 240  
ctctctctct cctctctctct cctctctctct cctctctctct cctctctctct

<210> 15147  
<211> 428  
<212> DNA  
<213> Glycine max

<23> unsure at all n locations  
<40> 15147

atgctaatac atttccaatg ttatttttat ctctactgag ttttaaaaga ttggctaaga 60  
ttttgttaaa acataagcac ttagacaatg aaggaaagct ggagttgctg cacatgatgt 120  
ccaaagttat gtcaaggaat aagatcgggc tacacaatgc acaaggcaag ataaaatgtc 180  
aaatgaagaa ttgaagttgc aggatccacg atgtcggata caatgtcctg acatcctgcc 240  
cgaanatact ggagttgttg cacaatgcac aagtcaagat aaaatgtcaa atgaagcatt 300  
gaagctgcag gatccacgat gtccgatacg atgtcctgac atcttgcccg anaatactgg 360  
acacataaat ctgttatata tttacagat tattgtgcag ttagcaaaag attagatgat 420  
ctatcttt 428

<210> 15148  
<211> 295  
<212> DNA  
<213> Glycine max

<23> unsure at all n locations  
<40> 15148

catggaagct ccaatatct cccacacttt ttagggtag ccattcttgg atggccttga 60  
ttttctcaag gtccacttgg acctcatttc taccacttac aaaacctatg aaaactatat 120  
tatctacaca aaaggtaaac ttctctatat ttctcatagag ggtgtttttc ctaatgaactg 180  
aaagaactag cctgadatgt cctaagtgat catctangct cctactgtac actaaaatat 240

catcaaaata aacaactaca aatctaccta tgaaatccct taagacatga tgcatt 295

<210> 15149  
 <211> 362  
 <212> DNA  
 <213> Glycine max

aattcaagct tatgggaagg cccatttgcct tggagaggt atg aattgt tt tcaagaaat 60  
 tgggggtgag tngcagtgc aacaaacctt gaaatcattt aattctgttc tcaatgtgat 120  
 ttgtcaagag ggtctcttca atcgtgcatt ggagttttac aatcatgttg ttgcattcaa 180  
 tagtctgaac attcacccta atgcactcaat tttcaatttg gtcatttaagg ccatgtgtag 240  
 tcttgggttg gttgataaag caattgatgc ttttagagag attcacccta ggaatttgcg 300  
 tccggataat tatacctatt cgacattgat gcattgggtg tgcattgaag agagaattga 360  
 tg 362

<210> 15150  
 <211> 456  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15150

tactcaagct ggtcccaacg ccttgttcag gctctcccaa aatctagatg taaacctagt 60  
 atctctatca gacactatgc tagatggcac accatgtaat atgacaatct cactaatata 120  
 cagagaggtc aacttttcca aggaaaatat gatattaatg ggaataaagt gacagactt 180  
 ggtcagcctg tcaacaataa cccagataga atcaaaacct ttgggggttc taggtagtcc 240  
 taagacaaaa tccatagaaa tattgttcca tttccactgg gtatctccaa gggttgtaac 300  
 tttcctgaag gtctctgata tcttagcctt ctgacagact aaacatgcct acacaaactc 360  
 actaacctct ctcttcatgt tgggtaccca aaacatcctc ttcagatctt gatacatctt 420  
 ggtagcacca ggatggatgc tcaaaactact cctatg 456

<210> 15151  
 <211> 377  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15151

agcttaacat tcaatttogg gactcaatca gacatcggtt gaattgctat tagcttttca 60

taatttaac agacatcga gtaaaaagtt attgtcgatt gaattcgatt agagggtcaa 120

cattcaattt tgagcgtctc gatatacgaa ggaactcaat cacacatgcg agntaaaagc 180

tattggcggtt cgaatatgct cagagcttca atcttcaatt acgagcgtcc ctttatatta 240

cgggaactcaa tcaatca 377

<210> 15152

<211> 363

<212> DNA

<213> Glycine max

<400> 15152

tgtctgtttc agaataaaca taaaacatcc tgtcactatc ttttccagaa cgagcaaccc 60

caaaaatcgaa aggtaatctt gggatttcag tccatttatt tgacacagaa tcatatattt 120

ctccagagtc cagaggctca tccaagatc ccagacctcc aacagctatc aacaaaaatc 180

ttttactgcc ctttgagctt gaatgtcac ttttttgctt aaagaatttg tatgtctttc 240

gactgggcag agacaaaagct tcagtctcat taaaagcagg tctgcaatgg cgtctcattg 300

aaagcttggtg gggatcttca tatacgtctg aaaccccacc aatccttgat cttggaaaac 360

gtc 363

<210> 15153

<211> 457

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15153

tactaagctt ataatatgtt cttgtgtcac ggcagacacc ttctttctgt anttttgtaa 60

gcatactcga atgcatatgt agcaattcgc tctgaacaaa accttggttat tacctagtaa 120



```

<212>      DNA
<213>      Glycine max

```

[illegible]

<110>	15157
<111>	259
<112>	DNA
<113>	Glycine max

```

<400>          15157
atccttggcc cccttagaga ttttgtaaag atgtctgcta gttgatcatt agaactaacg    60
aattcagtaa taacttcctt agaaaggact ttctctcgga caaaatgaca atcaattcaa    120
tatgtttaag ttctctcatg aatatgggat aaaagctata tataggactg tctgattatc    180
anaacatagt ttcatttgtt gagtatttcc aaacttcaac tcttgaagtg tttaatccca    240
tgagacacat gtgactaca                                     259

```

<C11>	15158
<C11>	360
<C12>	DNA
<C13>	Glycine max

```

140) > 15158
ttttgaagat aacatcatgg atcaatgtat ataccagaag gtcagtggga gtaagatttg 60
ttttcttctg ttatacgtgg atgacatttt gcttatgact aatgataagg gtttgcctata 120
tgagggtgaaa caattctctt cgaagaactt tgatatgaag gatatggggag aaacatctta 180
tcttatctgc attaaatctc ataccgaaag atctctgagc attctgggtt tctcttaaga 240

```



gaattatata aacaaagttc tagagaggtt taacatgaaa tattgttccac caagtgtagc 300  
 tectattatg aagggtgaca aacttgattt gagccaatgc cttaaaaaat gattatgagt 360

<210> 15159

<211> 265

<212> DNA

<213> unsure at all n locations

<400> 15149

atgaaaatat aatatcttga ttctaaaaat acttattttc tctccccctt tgtaaacatc 60  
 aaaaaggcca aagtgcgcga aacatgaata atttaatcat acacaaaagca taatttgtaa 120  
 acaaacata aaagattctg aaacatacat aaagaaaaac atgaataaaa ccaaatggaa 180  
 atgcatacca cttagtcata taacacaaac cataaatatc atgttcagtc atactaagca 240  
 aatattaata gaaatactaa gtcttcaaat gtccataataa tatagccaaa tacacggcta 300  
 gaaaacaaaa tactaataat aatagtaatg tctaaactga tagtgggtgt ggaggtaaat 360  
 taaggggagtc acgaatgatg gtgaaatctt cttcaacctt tgtgatcctt gagtncattt 420  
 cgtogaatcg cgtgtccact 440

<210> 15160

<211> 265

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15160

tcttgcattt gcaagtaacca gaatgggtgt tcttcagtat attgtttggg agcatggcgc 60  
 tatcttctgt aatgggcttt gtgtggaaaa cggatgtgca actgccatgg tggggtatgc 120  
 tcttgccttt tgggtaggtt tttattgtaa ccttccctat tgggtgcatt caagcaacta 180  
 ccaaacaggt accatctcca ctattatttt gatgcagagt gggaagcaat agaggtttaa 240  
 cattttaaca cttttttttt ttttg 265

<210> 15161

<211> 441

<212> DNA

<213> Glycine max



attatggggac tgaatcagac atccgagtaa naagttattg tegtttgaat atgctcagag 180  
 ctccaacatt caatttcgag cgtctagata tattacggga ctaaatcaga catccgagta 240  
 aaaagttatt gtctgttgaa ttgtctcaga gcttcgggtat tctatttcga ggtctctgat 300  
 attatggttatt tctatggttatt tctatggttatt tctatggttatt tctatggttatt

<212> DNA  
 <213> Glycine max

<400> .15164

atataccttt ttataggaat gtctgattga gtctgtctat atatcgagac gctcgaatg 60  
 gaatgttgaa tctttgagcc aatccaaaac gacaataact tttaactcg gatgtctgat 120  
 tctgtcccggt aatataacga gactctcaaa attgaatggt gaagctctga actaattcaa 180  
 atgaacaata acttttaact cggatgtctg attgagtctt gtcatacatc gagacgtctg 240  
 aaattgaatg ttg 253

<210> 15165  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<400> 15165

actcaagctt aacattcaag ttgagcgtc tctaatatt actgtacttt atcatacatc 60  
 cgagtaaaaa ttattgtctg ttggattgg ctccagagatt caacattcaa ttccgagcgt 120  
 ctccatatat taagggaactc attcagacat ccgagtaaaa agttattgtc gtttgaatta 180  
 gcttagagct tcaacaatca atttcgagtg tctcgatata tcaagagact caatcagaca 240  
 tccgagtaaa aagttattgg tegtgaatt ggctcagagc ttccacattc aattttgagc 300  
 gtctcaatat attacgggccc tcaatcagac atccgagtaa aaagttattg tegtttgaat 360  
 tggctcagag ctccaacatt caatttcgag cgtctagata tctgacgaga gtcaatcaga 420  
 catccgagta aaaagtatt 489

<210> 15166  
 <211> 239  
 <212> DNA

11. *Journal of the American Medical Association*, 1997; 277: 1001-1005.

<400> 15167

accatattct taatacattg gtgctttcaa tcaactcataa cttttga 407

<400> 15163

caataataac taataatctg gaaaaagttc aaaaacctgc tgaataatta aacttcttta 360

atcatatcgc attgtgtatt atatttagac tttaactctca tttctcttct ctataaatat 420  
 ctaataacag aggtgtacaa gaacttggg 449

<221> unsure at all n locations  
 <410> 15169

gttgccactc tcttcaagaa aaggatgtag aatctgaaat tctgatacca atgacagatg 50  
 tcttacccga tctcacgaca tcaagcttca gaacatgcag atgatatttg acagtatgaa 121  
 cagattaaac aagtaaataa cacaggagaa ttgttaaccc agttcgggtgc aacgtcacct 130  
 acatctggng gctaccaagc cagggaggaa atccactana atagtgttag ttogaagatc 240  
 taacaaccac tgtttacaac cttctcacct aaccactacc catgcaacct ctacctaaag 300  
 gcbactetta gatatgagaa cacctctcac tccctctcaa tcaactctcc gtgggttacca 360  
 ataattcana gadacac 377

<210> 15170  
 <211> 160  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15170

gacatggga gnoctcaaga gcttccgtg ttcaatttgc agcttctcga tatgtgattt 60  
 gccgaatcg gacatccgtg tgaaaagta taccaattga atttctcaag agcttccgtt 120  
 gttcagtttt gaacgtctcg atatgtgatt tgcctgaatc 160

<210> 15171  
 <211> 371  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15171

ttcatgcaag ctttgcctta ntttetaaga gctcgacaat agcgggtgtc ggaacccgat 60

caagcaccgt gattgcattt aaagctctgt agtccatgca aaagtgccat gaaccatcct 120  
 gcttgcgaaac taggagcaca gacaagaaaag gtcctttcta gagcattgat tcaacctgag 180  
 attcaatctc atgtttcttg taatgtggat aacgataagg ccgtacgttg actggcgag 240

<210> 15172  
 <211> 323  
 <212> DNA  
 <213> Glycine max

<400> 15172  
 tctttcttga agactaactg gatgctcgg tcaacttggf aaccagctg gccttgaatc 60  
 acaaactctgt aactgtcgca agggttcttg gttgtgctc ctctgtgac caccatana 120  
 acccttgccc tccatgcag caacctggag caattgagca gactgaagct tatgttgcaa 180  
 atatttacia tagacctcct caacctcagc agcaaaatca accacagtag agcaattatg 240  
 acccttccag caacagatac aaccttggat ggaggaatca cctaacctc agatgggtcca 300  
 gcctcagca acaacaacag cag 323

<210> 15173  
 <211> 420  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15173

agctttgtat tctagaaaagt gtaagacacc cctatgttgg ttagagctcg gagaagacct 60  
 cactttacga cctgaagcgg tacaacaaaac caccgagaag gtaaaagtga tccaagaaa 120  
 gatgaggact gcttagagta ggtagaaaag ttatcaagat aagaggagga aacacctgga 180  
 attcagaggtt ggtgatcatg tattcttgag agtcaactcg tggactcggg ttggctgaga 240  
 attgaaatct cgaaaaatca cacttcactn tataggtctt tctctggaat tcaaaatgac 300  
 atctcctttt agtagaatct gaaacacccc ccagcccttt atgttttgac aaggggat 360  
 gaetccgaat gttgtcatta accttatttc tganaatctc tactaaatat cctttaaatt 420

<210> 15174  
 <211> 398  
 <212> DNA  
 <213> Glycine max

ttttaggtca aaaaagtggt ttctgaatc aaacagatca aaattgatct tctgacatc 120  
 tatgacccgtt tccagttttac cctttctcat atccaccaca caatcggcgg ttaacatgaa 180  
 tggatggccc aaaaatcaagg gaatttttanc gtctctctca atatccatta caacaaaatc 240  
 tccagggaaa gtaaaatggt gcaccttaac cacaacatct tcaattatgc cataaggcct 300  
 tctaatagac ccatctacaa gttgtagtgt cattctagtt ggcataatct ccaactcttc 360  
 aattctccctg cccatggaga gaagcatcaa atgtatat 398

<210> 15175  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<400> 15175  
 tcttcttcag catcttttct tggctagaaa catgctctct ggcaagtctt ccttggagtt 60  
 actcaactgc tctcaatcc aacagttgga cctttctgat aacagctttg aaggagaact 120  
 tcttccagc ttggacaaac tgcagaacct cccagatctt gtgctcaaca acaacagttt 180  
 tgttggatct ttaacctctg aaattggcaa cattagtagc ttggaaagtc ttttctatt 240  
 ttgttaacttc tccaaaggta atattccgtt ggagattgga aggctgcaca gattgagctc 300  
 cctttacctc tatgaagacc agaattctgg acccatacca atggagttac caactgccaa 360  
 gctttagaaga agtgacttct ttgaaatcac tccatgggtt cattccaaaa cta 413

<210> 15176  
 <211> 397  
 <212> DNA  
 <213> Glycine max

<213> unsure at all n locations  
 <413> 15176

tttcttgtat gtgtttacat ttcaagtga tatatagctn tagcccaaca cttgttttga 60  
 ttcagtgaac ttattacaac aacaatagtc ctacatacta catgccccta gagtttagaa 120  
 gatttgcdaa ctggatccaa aacatagca gaaaagaatg taaataaat gtgaataaaa 180

<210> 15177  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<22> unsure at all n locations  
 <40> 15177

cggaattcct gtgttctgag aactctcct ttctcaagtg taatttaacc caatcacctg 60  
 gttcaagcac gaactgtctt ctgctcttgt tggcttgcc tgcatagcct gcattttct 120  
 ttcaagttg agccttcact tgccttgcg acttcttcac atactcagct ttagcctgtg 180  
 catccttatg cttaaacata gcaatgttag gcatagccaa caaatcaaga ggagtc aaag 240  
 gattaaatcc atacattatc ttaaatggtg aacaattagt tgtgctatgg acagcccgat 300  
 tataagcaaa ctcaacatga ggcaaacagg ctcccaaga tttaagattt ttctttaaaa 360  
 caatcctaag cagtgtgcct aaagtccat tgactacctc agtttgacca ttagtntgtg 420  
 ggtgacaagt agtag 435

<210> 15178  
 <211> 231  
 <212> DNA  
 <213> Glycine max

<400> 15178

gtttgatcag cgaactcata atgggtgacc tgcagagtaa gaactcctct tatctgcaca 60  
 accaaattat tcaagcacag tcgataatat agaagatgga actatcaca ttagtattcc 120  
 ttcaagaat gggaaagggc gtccatcctt taacttcaac aaagtctttg gaccatctgc 180  
 atcccacagt tggcttgggt ctgagtttca gctatctcca acatcactat aatttagtaa 240  
 atattgaaca aattctctct cttgtgttca accgaagctc t 281



<210> 15179  
 <211> 399  
 <212> DNA  
 <213> Glycine max

ggacatccgt ctaaaaagtt atgcccattg aattctctga gagcttcgt tattatatt 180  
 ttagcatctc gatatgtgat gcactctaaa aagttatgcc atttgaattt ctgaaaagct 240  
 ttcgttgctc aatttttagc gcttagatat gtgatgcact ctaaaaagtt atgcccattg 300  
 aatttgctga gagcttcgt ggttcaattt ttagcatctg gatatgtgat gcgtgtgaat 360  
 cggacattcg actgagaagt tatgaccatt tgaatttct 399

<210> 15180  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15180

agcttctaga tgatttatgt ctgcgaatcc gacatgctgt gagaagttat gaccatttga 60  
 atatatcgag cgtgcgcga gttcaatcac aagcagcata gatatgcgca tgtactcaga 120  
 ttagacatta gagcgaaatg ccatgaccat ntctaataga gctgagagct atccgatttt 180  
 taatcatcta gcgtctgaga tgagttatga cacacgaatc gacacatcta gagtgaacaa 240  
 gagctgacca ttgcgaattt gtcgagagct acatatgtga atctctcaac gtagagatga 300  
 cttatgaatc cgaatagaac atccgtgtga aaa 333

<210> 15181  
 <211> 443  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15181

atctc'aagt cactgcagc atgcaagctg tcccttttga canatactcc ttaccaaata 60



aatcttacta ctgcttctct gatggtcttt catgtcacat gcaaatcaat attgctctta 300  
 aggaacaaga gaagatcaca ttcacctg 328

<210> 15184

<400> 15184

agcttctcta tgaagattcc taaagaagct agagcttagc tacacatacc tctctaatag 60  
 cttaagctaac ctctcttgaga tgagaagcta gagcttagct acacacacca tatagtagct 120  
 agctcaccac ctatgacaaa atacatgaga atacaaaaaa aatccctact acaaagacta 180  
 ctcaaaaatgc ctggaataac aaggctaaaa ccttatacta ctagaatggc caaaatataa 240  
 cgcctcaaatg aaggaaaaac ctattctaat atttacaag atagcgggc tctatacttag 300  
 cccatgggct cgaatctac cctaaagctc atgagaaccc tangggcctt ccttggtctt 360  
 ctgaaccaat ctacttgag tcttcta 387

<210> 15135

<211> 321

<212> DNA

<213> Glycine max

<400> 15135

gcacgttctc tcttcagag gactacacgt tctcaccttc agattactac acgtgctcgc 60  
 cttcagagga ctacacgtcc tcccttcat aggactaaaa gtctctcctt tcagaggact 120  
 acacgtccac gcttcagag ttctacacat cttcgcgttc agagggctgc acgcccctcat 180  
 cttcagagga ctacacgtcc tggccttcag tgggtacac gtctctcctt tcagaggact 240  
 gcacgcccct accttttagag gactacacgt cctagcgttc agagggttaa acgcccctac 300  
 ctctaaagga ctaaaagtcc t 321

<210> 15136

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15186

agcttgttgt ttttaagatt acatctatac aaaggaattt ttgatggggc agcctccaag 60

cttccattaa gatttccttg gtagagtggtg acatagtctg cctacctaag agtaaaagtg 120

cttccattaa gatttccttg gtagagtggtg acatagtctg cctacctaag agtaaaagtg

tggtatctt caagcagcag caaagcaaca caatttgaa aaatagctct attttgcca 360

taagtaagga cggtccttg aatacaaac aagtacttat tggcttgcaa caaaaaaaca 420

ctcattgga 489

<421> 15187

<4211> 408

<4212> DNA

<4213> Glycine max

<4223> unsure at all n locations

<400> 15187

agcatgaatt agcctatta atctttgttc ggttttgaat gcaagagggc atgaatatta 60

tgacatgttt gagaggtttt ttattacaat ttaaattggc tgccctatga ggaatacctt 120

gcacctatgt agcatggaaa atacctttca atggatatgta tatatgtgaa tatatatagc 180

atggaaatgc ctgcaaaagt gtgtgaatat atggcatata tataccttgc aaagtgtgaa 240

tgtatagcaa ataattgaatt tcaaaaatct gtatatgtaa gataggtagc gtaaaaaatg 300

cctttcaaaa tatgtatatt tgtgggtagg tagcataagg agcctttcaa acaaaatgta 360

cccatggcaa anattggcag agaattgttc ccaaatgaat atatgatg 408

<4210> 15188

<4211> 401

<4212> DNA

<4213> Glycine max

<4223> unsure at all n locations

<400> 15188

agagatgant gaagggagag gaagagaaga gtttgaaatt ttgtgtctta aaaaagctct 60

aaaatctgag gtttattat caaaggatca aagtggaaaa aaggccacac catgaccttt 120

tttatagcct aagtgtcacc caaaattyga gggaaattga aatttcaatt caaatttcac 180  
 tttgaatttg aaattgattt tytggaaaca aacttggagc caaaattcac taatatgatt 240  
 agtgaatttt agtatgattc agcccaactaa tccaagattc tccactaagt gtgotttaggt 300  
 atctatgattc atctaatcgc tcttctggtc atctaatcgc tcttctggtc atctaatcgc

<210> 15189  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15189

agctttaatt tccaattacg agcgtctcga tatataacgg gactcaatca gacatccgag 60  
 caaaaagtaa ttgtcgtttg aatttgcata gagctgcggc attcaatttc gactgtctcg 120  
 atatatcagc ggactctatc agacatccga gtaaaaattt attgtcgttt gaatttgcctc 180  
 tgagcttcaa cattcaattt ctagcatccc gatataattc gggactctat cacacatccg 240  
 agtaaaaagt tagtgtcatt tgaatatgct ctgagcgtca acattcaata tcgagcgtct 300  
 tgatatatta cgggactcaa tcagacatcc gagtaanaag ttatggctgc ttgaatttgc 360  
 ccagagatac aacattcaat ttcgagcgtc tcgatataat acgggactca atc 413

<210> 15190  
 <211> 334  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15190

aataacnntt ttacttttcg gatggctcng aaattgagtc acagtaataa tgtcaaagac 60  
 gcttcgaaat atgnnnatac cgaagctctg agcnaaatc ataacgaaca atacctatct 120  
 gaactcggatg tcggattgag tcacgtaata tctcgagacg ctcgaaattg aataacgaag 180  
 ctctgagcga attcatacga caataacttt ttaactcggat gtgcgattga gtcccgtaat 240  
 atgaacgagac actcgggaatt gaatacggaa gctatgagca aattcaatcg acaataacat 300  
 ttacttcgga tctcggattg agtcaagtaa tatg 334

<210> 15191  
 <211> 326  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15191

tttgaatttt tggagagatt taatagggtta taacttttca ctggcaggtt caatctgggt  
 gataacata tggagacgct tgatattgaa caactgattt tctgagagaa ttcaaatggt 180  
 tataactttt aactcgcatg tccgattcaa ggcataaca tatcgagagc ctgcacattg 240  
 aaaaaggat gttctcgaga aattcaaatg gtcataactc ttcactctca tgtgcgagtc 300  
 aagogaataa ctatctaga caactg 326

<210> 15192  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15192

agcttgtaat tttattntcc ttgctagaga tcaatcaaga gccctcctac ataaagggaa 60  
 ggcctcctcca aaataattgg aatntcctaa tctcctttta tgtccatgat cacaaaatca 120  
 gcttgaaaaa tgaatttacc aactatgata agcaaattct ccaattttcc ttccagataa 180  
 gtaatagttt tatctacaag cacaagagaa atgttaatgg gttgnggttc ttgtaactcg 240  
 aacttccttat aaacaaaaata aagcatcaaa tcaatgcttg caccaagatc acataaggct 300  
 ctatcgantt tcagctccca tagtacangg aatgaaatcc catgattgtg acttagaggc 360  
 atttctttta actatataag cattctcatt gagccactgg gaaa 404

<210> 15193  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15193

tggacttctt ggtttctggg aaactctcct ttctcangtg tatccaaacc caatcaccta 60

gttcaagcac gaattttcttt ctgcttttgt tggcttgcct tgcatagcct acatttttct 120  
 tttcaatttg agccttcact tgcctatgta gtttcttcac ataactcagct ttagecctgtg 180  
 tggctttatg cttaaacata gcaatgttag gcataaggaaa caaatcaaga ggagtcaaaag 240  
 ctgcttcaag cagtggtgcct aaagtcctat tgactacgct agtttgacca ttac 300

<213> 15194  
 <211> 339  
 <212> DNA  
 <213> Glycine max

<400> 15194  
 tggcaaacat ttatcgtaga cccctcagc agcgaaactt tcaattgtct taaaattatg 60  
 acctcacaag aaacagatat aatccaggtt gcatgaatca tccaaatctg agatgggcaa 120  
 gctctccaca acaacaacag tttagccttc ctttcacaga tgcctgctggt ccaagcaagc 180  
 catatgttcc tcttgcaata cagcatcagc aacaacagag acaacaagca actgagaccc 240  
 ctccccaacc ttccttagaa gagatagtga ggcagatgac catccacaat atgcaatctc 300  
 agcaagagac aatagcctcc attcatagtc tgacaaaac 339

<210> 15195  
 <211> 395  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15195

ctaaagttcc gcttcttcac tcagctgctg ttgtttaatt attaacttgt tcttctctct 60  
 ttttatctta ctccggtaca gatgtactcg tggagctaaa ttaaactctg aagattttaga 120  
 ttgcattggtc ttaagttcta tctattctga ggtgatgatg atgaacaaac aagtttactg 180  
 ctataacatc cagtcaggca gtgagcatga ggtactacaa gagatattaa gcactgtttg 240  
 atgcccataa aagcaaaagc ttttatcttt tttttctttt tcttggtnta taattattct 300  
 gcaacacaaat atgtacatat atgtgttcta gatgctctgg aaatgacctt ctatgctctg 360

aaaggtoctc ttaaactatc gatttacact gatag

395

<210> 15196

<211> 358

<212> DNA

<213> Glycine max

taaggttcat tagagacggtc cctgtgtatg gaagataagg tgttgtgtg aaagggatg  
ttttagttca tgggaaaact gcaattggaa ggattgatga tgattctgtt tgtgcaactc 120  
tugattgggtg gctctctcag aaatgtgaat atggaaaatg cagttggggt catgcttctc 180  
tctcaaacct ggtatttttc cttctttttt gctctctgtt tcttgaatcc gtcaaaaagt 240  
tctctttctt tttcagaata attagatggg ttttgcctct tctttttatt tttaatttta 300  
taaatagcat tctctgcctg atgaacgctt cctctgcctc tttagaatga tctctgga 358

<210> 15197

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15197

agcttcttta ttnatgatcc cttaaagaagc tagagcttag ctacacatac ctctctaata 60  
gctaagctca cctccttatg atgagaagct agagcttagc tacacacccc ctataataac 120  
taagctcacc cccatggcaa aatacctgan aatacaaaan aaaatcccta ctacaaagac 180  
taactanaat aactcgaaat acaaggctaa aacctatac tactagaatg gccaaaatac 240  
aaggcccaaa caaaggaata cctattctaa tatttacaaa gataaggggg ctcatactta 300  
gcccctgggc tcaaaatcta cctaagget catgagaacc ctanggcctt ccttgggac 360  
tctgaaccaa tctacttggg gtcttctatc caatgcctt gc 402

<210> 15198

<211> 365

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15198



ntgaagcaact cacatagngt tgaattcttg gatgaagagt tgttgtctat tgagagaaac 60  
 aagacatgga gtctcacaaa gctaccaata gtaaagaaag ccatagcagt aaaatgggtc 120  
 tacaaaaacta agttgaatcc tagaggataa gtaacagagt tcaaaagccag actgagtcca 180  
 atggatgtaa gattgtaatt tcttaagcc tcaatataag aaagaagttt tggatcttaa 240  
 ccact 305

<210> 15199  
 <211> 241  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15199

aattttcttc ccacagacc ttggatgcaa ctgtgattgt ataccatat tagctagatc 60  
 ttgaagggtta tccaagccat ccttcgtctt gcttgaatg ttaaggagtg tcccaatcac 120  
 actgtcaciaa acatttttct ccacatgcac aacatcaata caatgtctaa cgtcaagatc 180  
 tcaacagtae ggaagatcaa agaanaatga cctcttcttc catatgcaac tctgaacttt 240  
 a 241

<210> 15200  
 <211> 320  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15200

naagctcatt ttctgtcttc tcaaaaccac aagtgcctcc gctaattccc ccacaaaaaa 60  
 caccatttgt tcccagagat atgggtctct agggatgaca acaggttgag gggctctctga 120  
 tcatgcacaa gttacaagag acaaacccaa accagtgagg gtatcgaaga tggaaaccagc 180  
 atagaaacaa gacattgcta cttaggcacc ctctgggtca ccatttaaa ccattgctaa 240  
 gtttgcataa aaatccccaa gtgagttccc ccaagccagg aactgttagc tcaagattga 300  
 aggattatt ccacatatgt 320



agaagctoga aattgaacaa ccgaagctct cgacaaatta gaatggctgt aactttttcac 240  
 gogaatggtc gattcgggga cataactcat ctagaagctc ganattgaac aacggaagct 300  
 ctogagaaat tngaaatggt catacgtttc acaccgatgt ccgattcggg aacataatat 360

<213> DNA  
 Glycine max

<223> unsure at all n locations  
 <400> 15204

ajpgatgcan nagttctcac tttttcaatt natjagcccg totogatatg atgacgaaga 60  
 cmttaatca gacantccg agtaaaaagt tatttgctgt gtttaatttg gctcagaagg 120  
 ttaaacatt caatgttoga gcctctctcg ctataaatta cgggacgtca tatctaacat 180  
 ccagagtaaaa agttattggt gtttgaattg gctcatggtt tcaacattca atttcgagcg 240  
 totogatata tgacgagaat caatcagaca tccgcgtaaa aagttattgt cgtttgaatt 300  
 gctcagagg ttaacattc aatttcgagc gtctcggtat gttacgggac tcaatcacac 360  
 gtcagagtaa aaagctattg tegtgtgaat ttgtcagag attcacattc aatctcagcg 420  
 gtctcgatat attatggga 439

<210> 15205  
 <211> 320  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15205

tcaacatcag accacttcca ggggtgttga tctacttcac atgtatatga tggggcctat 60  
 gcaagttgaa agccttggat gaaagacgta tgcctatggt gttgtggatg atttctccag 120  
 atatacctgg gtttaactta tcatagagaa atcagaaacc ttggaagtat tcaaaagagtt 180  
 gagtctaaga cttaacagag agaaagactg tgtgatcaag agaattcaaga gtgaccatgg 240  
 cagagaaant gaanacagca ggttcactga attctgcaca tctgaaggca tcaactcatga 300  
 gttctctgca ggcattacac 320

<210> 15206  
 <211> 347  
 <212> DNA  
 <213> Glycine max

ttcattggatc tttaagaaggc aaaggacatcc tttagatgaat agagatcctag gttataggat 12  
 tccacatagg agctacatca gattcatgtg aattgttaat atagattcaa atgtcctcaa 180  
 attggtgtgtg acacttaagc tataaataga agccatgtgt gtgcacatctt tcaaatgtga 240  
 tcaattgaga attacaatto aaagttcaga cctcatttga tgcatacaat tgcattgcgtc 300  
 ttactaacct cttcctcaac ttattcttct ctaccttcaa gcttttta 347

<210> 15207  
 <211> 337  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15207

agctttcata atatgattgc tanagaagct agagctgagc tacacatacc totctaatag 60  
 ctaagctcac ctccttatga tgagaagcta gagcttagct acacaccccc tataataact 120  
 aagctcaccc ccattggcaa atacctgaaa atacaaaaaa aaatccctac tacaaagact 180  
 actcaaaata cctcgaaata caaggctaaa acctatact actagaatgg ccaaaataca 240  
 aggcacaaac aaaggaatac ctattcta atttacaaag ataagoggggc tcatacttag 300  
 cccatgggct caaaatctac cctaaggctc atgagaaccc tatggccttc ccttggatct 360  
 cngacccaat ctacttgagc tcttcta 387

<210> 15208  
 <211> 235  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15208

ggaaaaactgc aattggaagg attgatgatg attctgttng tgcacactcag gattgagggc 60

ctcttcagaa atgcgactat ggaaaatgca cttgggggtca tgcctctctg ctcaacctga 120  
gatttgctct ttgttttctt cttctgggtc ctgaatccgt cgaacaggct ttttttcttt 180  
tcacaataat cacacgggta tngcttcttc ctctcatttc ttaatttata aatac 235

<213> Glycine max

<400> 15209

agcttgcaatt agt tgtttttt ttctggagag acagccacta tactttgtga acaggattga 60  
gaaagaacg actaacaagg tgttttagcat tgcacagctt ggattcgggtg aagatgtgtg 120  
gattcatttg caaccactgt cgaaccgcaa cttttcttgg gaagatccat atgggaataa 180  
gtttttacat gcttaactta ccgatgatga t 211

<210> 15210

<211> 334

<212> DNA

<213> Glycine max

<400> 15210

agcttatatc tcaacttcag ctgtccctcc gatctcagcg tcatcataaa ctcatgaagc 60  
gatactttctg cccatttgcg attcttgaac gcattggcag cgttgcttac cgtttgcaac 120  
taactgaagg gtctcgtatc caccocgtct tccattgttc cttactacgc cctcatcaca 180  
gacctcttga cctcccaacc tcttcccttc cggcgggatac ttctcccca caccctatac 240  
ttgagccact agccatcctt gactctcgaa tggacttctc tgtggacccc ccaactcgtt 300  
tcgttcttgc acaatggggt ggtcttacta cgga 334

<210> 15211

<211> 398

<212> DNA

<213> Glycine max

<220> unsure at all n locations

<400> 15211

tcaagcttct ctatgaaaca gatgtgatta atctaaaatt acatctctac tgagaagaac 60

tttcttttca gatggtgacc agatcttata gcttttcacc ccatcaatat aacctatgaa 120  
cagacctttt cttgatctag gtaccaactt tctttcattg acatgataat aagcattgca 180  
gcaaaatact ctttaggtttg agtagttctc tgttttgcca tccagattt caataggggt 240  
... ..

<210> 15212  
<211> 392  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15212

agcttttata tattgaaaaa naaagctcca agagcttggg attaaaggct aagctcattc 60  
ttagttcata atggattcac cagaggaata atggacacca cactatttag aaaggctaag 120  
ataggaaatc tgttgattgc tcaaatttat gtagatgaca taatctttgg tgcaaccaca 180  
aaaaggatgt gcaaggagtt tcttgagcta atgaaagggtg aatttgagat gagtatgatg 240  
tgttgagctaa aattcttctt angtcttcaa aacattcaaa aagatgatgg gatattcacc 300  
catcaagaga acacanaaaa cctattttaa aggttttagaa tggatgaagc tagacctatg 360  
gtacacctta tgcaccttc cacaatcatt ga 392

<210> 15213  
<211> 381  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15213

gtccatctat ggattgaaac aagcctcccg ccagtggtat ttataaatc atgaggtcat 60  
ttcttcattc agctttgaag agaattgcat ggatcactgt atataccaga aggtcagtgn 120  
cagtaagact tgtttccttg tattatacgt agatgatatt ctacttgcca ctaattgataa 180  
ggttatgcta tatgaggtga aaaaatttct ctcacagaac ttccatataa aggatatggg 240  
agagggcatct tatgtcatc gcataaagat ccatagagaa agatctctat acattttagg 300

cttgtctcaa gaaatctata tcaacaaagt tntagagaga tttaatatga nagattgtca 360  
 oaaagtgtag ctctctttgt g 381

<210> 15214

<211> 403

<212> DNA

<213> Glycine max

<400> 15214

agtttcagtc gtactctat cngcangang tgnnaggat gatgtatct cacttcacta 60  
 ctataatcat aacattgcgg attgttttta atagaagcta cgaacaacag ttcccatatc 120  
 gtaattatt atctgatatg atatgtctat tcaayaaaat tgattgagag ctcaaaaaact 180  
 agtaacatcg aataataata ggtaacttaa tattctttat tacaacatgt gatatgttta 240  
 ttctaaaata taataaaaaa actaatactt ttaaattatt atattattta aatttgaaca 300  
 ttcttttaaa ataatgttag catatcggat gagtataaaa tataaattat caactagcat 360  
 gtoggaagag tataaaatat aaataataat gatagtatgt atcatgagta gt 412

<210> 15215

<211> 403

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15215

agcttgnntt taatccaacc tctcatggta gaagcagaca catagaaaca aggtttcact 60  
 atcttaggga tcaagtgaac aaagagaaac taaaagtggg gtactgctgc acatttgatc 120  
 aacttgetaa tattttaacc aaaccctca taggggagaa gtttaaaatg ttaagggata 180  
 gaattggctt gatgaactta ggagatcaga attaagggag ggtgtganag cttaattctg 240  
 ttttgagtg gtgtagattt aattgtacat tggatataag agagtaacag aattttaaaa 300  
 ttctgttata agtgcttagc ctaagtgtga agggttgtac tctgtttgct tgataaaaagg 360  
 acatacatgc atctaataat gaggatatca ttcatcattt etc 403

<210> 15216

<211> 403

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15216

atcttcgtta tatattacgg gactcaatcg gacatccgaa gtaaaagtta ttgcgcgttg 60

gttt

tt

ggagatctt tatattacgg gggaattcaat gggaattcgg agttaaatgt tatgttcgtt 120

agacttttct tacagcttcc gctttcaatt ttcgagcgtc tcgatatat acagggctca 300

ataagacatc cgagttaaaa gttatagtcg atagactttt cttagagctt ccgttttcaa 360

tttcgagcgt tcgatatat tacagggctc gatcagacat 400

<210> 15217

<211> 417

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15217

agctnctatc atttatcttc gganagcaat caagatgtga ggcattgtcag tggttgaaac 60

cccaatagaa cggaagaact cgagtttatg caaaagggtt tactctgcac cctcaagaag 120

taacaaaggt cgtttcttcg caagttttgc aacctgcatt atgtcaaacc catagctgct 180

gagcatatca ataacagcgt ctgggccatc tgggtttgta aaaatgaccc tgtcggagac 240

gaccttgggt ttctatggcg gcaccccaca tgagttgatg aggtatgaca cagtataggt 300

gtcacttttg tggcggcttc catctgattc agaatcagaa gagctggctg aagtgaatga 360

atagaagaaa acacttgaag cagtgtgttt gagttgcgac agagaacca atgtgat 417

<210> 15218

<211> 379

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15218

gaagatggac tcaagtttgt caaactgaag ggtgtttgta tgcaggtaan caatatctgg 60

taacctggct agttctctgt ctcaactcaa cttatcttgc gaaataactt ctgttcttta 120



tccaggatgc cgcbaatgct gctataagtg ctatgggttag tgtgataaga ctggactcag 130  
 agaaagtcca acaatagtgt gatgcagcca atcaggaagt tectgaagct gagaaggttc 240  
 aaattgccaa ttactgtgct ccagtaaggt tcttgtgaat ctaccattta taagcttaag 300

<210> 15219  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15219

agcttggtatg atttgcaaga tcatgtctct tgacaactcc ttgaaaatta ttgccatcaa 60  
 tccanagaga tgacaattta gagagtgate caagacttcc anattggattt ccactgaatt 120  
 tattaataga gagatagaga tattntaaat ctatctccct tgagttggcg agatttccca 180  
 gaaaagtccg aattatccg tcaagttgat tatatgacaa atcaagttca acgagagaag 240  
 tcaaatttcc cagggcatca gaaatagtc catgcaagtt gttgtccct atgttgagga 300  
 gcttgagacg atgaagaccg tataagcaat caggtataga agatgagaat gaatttccag 360  
 acaautcaag atcttgaaga agtgtgatgt ttccaatacc accaggaatg gga 413

<210> 15220  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15220

tectaggctc attggagagt ctgagatact tggaccttat ctttaagtggg ttcattggat 60  
 taatccctca tcaactaaga aacctctcan acctgcagca ccttaattct ggatadaatt 120  
 atgctcttca gatagataac ctttaattga tacaaggct atcttctctg gactaccttg 180  
 atttgagtgg ttccagacct cattaacaag gtaactggct tcaagtaact agtgaacttc 240  
 catctcttcc agaactacac tngagagct gtcaaattga taacthagga ccacccaaaag 300  
 gaaaaatcaa ctccacacat ctccaagtc ttgatcttcc aattaacaat ctcaatcagc 360

aaatcccttc atgggtatatt aatctcagca cagctcttgt ccaacttgat ttacacagta 420  
 accttttaca gggagaaaat ccacaaat 448

<400> 15221

agttgttatt attattttga gcaactacaa atgatcttga tgagatttcg gtgtcgcaaa 60  
 ttccgcatta ctccacatto tacaataaag ctctctgac ccaattcaag gtccaaatta 120  
 aataatttga ctgcacacaa catcttattt ggaagtatac ctttgaacac agagccaaaa 180  
 ctacccctac caagcaaat accctcatca catccattgg ttgcccgatga aagttcattg 240  
 catgaaattg tactagatgc taatacagta gatgaactga ctccagcagg atcaccacca 300  
 ccattgccttt ttctccgact accttttcaga aggaacacac ataaaaaac caatatgggt 360  
 gacaacatta caggcaatat gcattcgatg aaaacatatg tgca 404

<210> 15222  
 <211> 199  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15222

agatgtccaa atcttgatgc catattctga ctccatcttc tntggaagat agacatgtgg 60  
 aggagtaact gggctctttag gtgccatagc agcagggtgc tttgactgct gccttattaa 120  
 acctactctt tcatttgtac caacatgctg acctggaagt gacattgaac cttctcacia 180  
 caetgactga gctgatcag 199

<210> 15223  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15223

atatatattg tgccttgatt accgtgcacaa catgtttgtt tggtttaaac taatgtgcac 60



cacatctatg atgaggacca caaggtgaag cttgcgcgca cggagttttc cgaactatgct 300  
 cttgtgtggt ggaacaagct acaaaatgag aga 333

212

<23> unsure at all n locations  
 <400> 15226

cgtatgctg canacattta caatagacct cctcaacctc agttgcaata caatcacag 60  
 cagaacaatn atgacctctc cagcaacaga taccaatccc gatggaggaa caacctaat 120  
 ctcagatggt ctagncttca acaacaacaa caacagcttg ctccttcttt ccaaaatgct 180  
 gctggcccaa gcagaccata cattcgttca caatccaac aacagcaaca gccccagaaa 240  
 caacannaca gttaaagctcc tccgtaacct tccctogaag aacttttgan gcaaatgact 300  
 atgcanaaca tgcagnttca aaaagagacc agagcctcca ttcagagctt naactaatag 360  
 atggggggaca ttgctacaca gttaaata 389

<210> 15227  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15227

ttagaactct tcttttggtt gtcaaaacttt attggttnaa tctctcttca tctaaatcaa 60  
 ccaactcacc tgacatcatt ttccaataat ggtcgattgg aatgtccatt tgtttttgta 120  
 ccttggttga ttgcaaatgt atttcgaccg gaagtacagc atcatgccca taagtcagtc 180  
 gaaatggggt agtattagtt gattccttan gagaattttct acatgcccat agaacttgat 240  
 ctaagctttt attccaattt cctggctttt gggcaatgtg ttctttaate aagttaatta 300  
 caatcttatt ggttgcctca acttgacctt ttgcttgcgc gtaatatggt gttgaggtta 360  
 ataatcgaaa gccaatattt tgggcaaat cttgcatttt tcttccaaata aaaactgaac 420  
 cttgatcagt ggtaattggt 440

<210> 15128  
 <211> 406  
 <212> DNA  
 <213> Glycine max

<400> 15128

ttttcaatc gg agtcoga ttcaggcga taatatatc agaatcoga aaaggacaa 120  
 oggaagctct cgagaatttc aaatggcat aactttcac toggaggtec gattcaggcg 240  
 cataatatat cgagacgctc gaaattgaac aactcaagct ctogagaaat tcaaatggtc 300  
 aatcttttc aabggaggt cagattcaag cgcataatat atcgagacac togaaattga 360  
 acaatggagag ctctcgagag attcacatgg tcataacgtt tcaatc 406

<210> 15119  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15119

agcagcgtta natttatatt aaaagctcca agagcttggc attaaaggct aagctcattc 60  
 ttaattcata atggatgcac cacaggaata atggacacca cactatttat aaaggcttac 120  
 ataggaaatc tgttgattgc tcaagatcta tgtagatgac ataatgtctg gtgcgaccac 180  
 agaactgatg tgcaccgaga tntctgcact aatcaaaggc gaatctgaga tgagtatgat 240  
 gggtagccta aaattcttgc taggtcttcc aaacattcaa aaagatgatg ggatattctc 300  
 ccataaatag aacacataaa acctatataa naggcttaga atggatgaag ctgacacctat 360  
 ggctacccct atgcaccact tcacaatcat tga 393

<210> 15230  
 <211> 401  
 <212> DNA  
 <213> Glycine max

<400> 15230

tcattgtctt attttcaatt acgagcgtct cgatatatta cgggaactcaa toggacaacc 60

gagtaaaaaag ttattgtcgt ttgaatttgc ttactgctgc tgaattcaat taagagcgtc 120  
 tcgatatact acgggacaca atcggacacc cgagtaagaa gctattgcgc tttgaatatg 180  
 ctacagagctg ctattttaaa ttacgagcgt ctcgatatat taagggaactc aatcggacat 240

<210> 15231  
 <211> 430  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15231

gtgagaaana tcaaacgaca ataaatatct actcggatgt tcgattgagt ccgtaatat 60  
 atggagacgc' tcgtaattga aaacaaaagc tctgagcaaa tccaaacgac aataactttt 120  
 gactcgggtg tccgattgtg tctcgtagta tatcgacacg ctcgtaattg aaaagggag 180  
 ctctaagaaa aatcaaacga caataacttt taactcgggt gtcgattgtg gtctcgtagt 240  
 atatcgagac gctcgaaatt gaaaattgaa gctctgagaa aaatcaaacg acaataactt 300  
 tttactcgaa tytcgattg agtcccataa tatatcgaga cgtctgtaat tgaaacagaa 360  
 gctctgagca aattcaaacg acaataactn tntactcggg tytcgattg agtctcttag 420  
 tatatcgaga 430

<210> 15232  
 <211> 418  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15232

agctntgttt agtttgaata taaaagctcc aagagcttgg tattaaaggc taagctcatt 60  
 cttagtccat aatggattca ccagaggaat aatggacacc acactattta gaaaggctaa 120  
 gataggaaat cgttcgattg ctcaaatctc tctaatgac ataactcttg atgcaaccac 180  
 acaaaaggatg tgcaggagt ttcctgagc' aatgaaagg' gaattttaga tgaat'gat 240

gggtgagcta aaattcttcc taggtcttca aaacattcaa aaagatgatg ggatattcat 300  
 ccataagag aacacaaaan acctatttaa aaggtttaga atggatgaag ctagacctat 360  
 ggtacccct atgcacctt ccacaatcat tgataaggat tagaaaggta ataaactc 413

<223> unsure at all n locations  
 <400> 15233

taaatccggg ataagggggg ccaacaaaac acctggccaa cccctcattg caactgcacc 60  
 atactacct tttatgtttg ataaacccac tatggattgc ttcttagaac tccacgatat 120  
 tgggtgttga ccatacatga atatgtaac tatagtactc tntatgtcan ttttgtctca 180  
 tccccaatcc gcatcagtat atccacataa ttctttctag ttaactgttg ctatatctgg 240  
 aaatagatat ccagtattga tggctcttt tatgaacctt agaactctct tagcagctag 300  
 gagatgagga attctgggtc tttctgtata tctacttacc agtccaatag caanatccaa 360  
 atcaggtctt gaatgacaca agtacctgag agaaccaaca 400

<210> 15234  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15234

taaccttctt tataaacggg acattggtgc acaatacaca atgtccggta caccacaacc 60  
 aaatggtgta ccacaaaggc acaatagaac tttaatggat atgattagga gtatgttaat 120  
 caattagact gtatccgtat ctttgtggat gtatgccttg aaaactgtca tgtatttgtt 180  
 gaatagggtt cctagtaagg cagttccaaa gacatctttt gaactgtgga caaataggac 240  
 acctagtata aggcacttgc atgtttgggg ttgtcaggca caaataaaga tttataatcc 300  
 gcaagaaaga aaattggatg caagaacaat cagtggatat ttcattgggt atcaagaaaa 360  
 gtcaaaggag tatatngtt attgtcttaa ccatagtatg agaactgtca aaact 415

<210> 15235

<211> 381  
<212> DNA  
<213> Glycine max

<225> unsure at all n locations  
<400> 15235

attgaacttt ctatttaagt tatgaattct ttgaataatg aattttcttaa atgttgattc 180  
aaatagaaca atttgaatat gaatatngac caataatata taaaggagtt taagggaaga 240  
gacaatgcac aacacagaatt atactgggtc ggccacaccc ttgtgacctac gtacagtccg 300  
ctagaaacta ttttgtaaat tctttctaca agttctaaac acacaaagac aacctctctc 360  
ttgtttttaga atttttcaca g 381

<210> 15236  
<211> 404  
<212> DNA  
<213> Glycine max

<400> 15236  
agcttgcttt ctcatggaag ctctaatat cttccacact ttttggggtg ggccattctt 60  
ggatggcctt gattttctca gggaccactt ggaccccatc tctaccaact actaaacctc 120  
agaaaactat attatctaca caaaaggtag acttctctat atttgcatag aggggtgttt 180  
tctaatgac tgaaagaact tgtctgagat gtcttaagtg atcatctagc ctctactat 240  
aacctaaaaa atcatcaaaa taacaacta caaatctacc taagaaatcc cttaagacat 300  
gatgcataag cctcataaag gtgcttgatg catttagtgag cccaataggc atctctagcc 360  
attcatacaa accagaactg gtcttgaaag cacttatata ctca 404

<210> 15237  
<211> 380  
<212> DNA  
<213> Glycine max

<225> unsure at all n locations  
<400> 15237

accttatgat tctcattctt tngaatctct ggattggatg cttaagtcca ttggcttccc 60



agccagttc tataacttga tcattggaatg tgtttcttcc acttcattta gtgtggcagt 120  
 caatggatct atttatggtc acttcaaagg gcaggggggt cttagacaag gggatctctt 180  
 atccctttat ctgtttgtgc tttgtttgga gtacttttcc agagatatga gcagtctcaa 240  
 ggttttttct tttgttttga gtttttttga gtttttttga gtttttttga gtttttttga

<210> 15238  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15238

agcttgagta cttttgtang gctccaaggc ttccatcag ctctgataaa tctgcatat 60  
 actcagccgg tattagggct catgagcttt ctcatattca acagcttact ggatttagct 120  
 tgggtgactt gccttgtata tacttgggtg ttcctctttt atcatgtaga ttaaattgat 180  
 gtcattatgc tcccttgcct tccaagatta cttgcctgat tcagggatgg agcaccaagt 240  
 ctttatotta tgcaggtaag ttagagttga tcagagcagt tattcaagga attgtgaatt 300  
 tctggatgga gatttttctt ttgcgcgaat ctgttcttga ccaaatcaac gttttgtgcc 360  
 gtaattctct gtggagcaaa ggggatattg gaaaaaacia gcc 403

<210> 15239  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15239

agcttngtan aaccaaccaa tcagaatgct agacgaaata tagatgggaa tagaggtaac 60  
 aatggcggta atgacggacc gaggcagaac cgggttgagg gagtaaaact caatgttctt 120  
 cctttcaaaag gtagaagtga tccagatgcc tacttggact gggaaatgaa gaattgagac 180  
 gtatttgcct gcaatgacta cactgatgog cagaaaagta agctagcage agctgaatto 240  
 tccgactatg cctttttttg gtggcataaa taccaaaagag aaatgttgag agagggaacg 300

cgagaggttag ataatatggac tgagatgaaa aggggtgatga gaaaaaggta tgtgcccact 360  
 agctataaca gaaccatgcg acagaaactc c 391

<210> 15240

<400> 15240

tgggacatcc gtgtgaaagt tatgatcatt cgaatnnttc aagagcttcc gttgntcaat 40  
 ttctagcgtg tggacatatt atgcgcacaga atagaacatc cgtgtganaa gtttaagacca 120  
 ttgaatttc tcaagaactt ccgttggttc atttcgaget tcttgacata ttatgtgccc 180  
 gaatcggata tccgtgtgaa aagttatgac catttgaatt tcccgagagt ttccgatgtt 240  
 taatttcgag cgtatcgata tattataagc ctaaatcgga catcgtgtg aaaagttatg 300  
 accatttgaa tcttcgaga actttccgtg ttcaatatca agcttctoga catattatgt 360  
 gcttgaatcg gaca 374

<210> 15241

<211> 402

<212> DNA

<213> Glycine max

<400> 15241

agcttgatca gctctatagg aacggcttcc caggttccgg tgggtggtgcc ggtgggttta 60  
 ggattcgaat tccactggg ttgagcgcgc cgcagcagca gcactctgga tctgcttcca 120  
 aggtgtttgg gaaggttggg aatcagagat tcagccccc aa tttgaatcaa aaccctaacc 180  
 ctaactcttg gaagaagagg gagagagacc ccgtgggtga agtgggtggt gcgattaagg 240  
 tattgggaga tgggtttgtg agaattggaac agatgaagat ggagatggcc agggagatcg 300  
 agaccatgcg gatggagatg gaaatgaagc gcactgagat gattctagaa tcgcaacagc 360  
 ggattgtcga ggcaattgcc aaggccgttt cggataagaa ca 402

<210> 15242

<211> 325

<212> DNA

<213> Glycine max

<400> 15242  
 agcaacattct tcaacagatc tatgtccctc tccacaacac cattctgttg aggtgttctt 60  
 agccttgaaa atttatggty aattccatgt tcttcacaaa agtgttcata ggaactcatt 120  
 atagctctta aaggacctat aatca 325

<210> 15243  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<400> 15243  
 agcttgctta tccatggaag ctctaatat tctccatact ttttggggtg ggccattctt 60  
 ggatygccctt gatctttctca ggttcactt aaaaccatt tctaccaact acaaacctta 120  
 agaaaaatat attatctaca caaaaggtac acttctctat atttgcatag aggggtgtttt 180  
 tcttaaggac tgaagaactt gcttgagatg ccttaagtga tcatctaggc tctactgta 240  
 caataaaaata tcataaaaat aaacaactac aaatctacct atgaaatccc ttaagacatg 300  
 atgcataagg ctcataaagg tgcttygtgc attagtgage ccaaaaggca tcaactagcca 360  
 ttcatacaaa ccaaacttgg tcttgaaagg ggttttccac tcat 404

<210> 15244  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15244  
 caagcctnec atttatgtca ggtagacca gacatctcta taaagactcc ttatgaaatg 60  
 cacatcaact attttctat tctcagcatt gaattaggaa tatagtcata acctgtacaa 120  
 gaacaggtat gagtgggagt agaattcgaa ccgcactcag aacatacata ttttctctag 180  
 ggcctgtgta atcgatcat agagttcgtt atcactctaa tcactcggta gatgatagtg 240

atgcacaggt gaaaatctct gatgtcttca ttgatgctct tctattgcaa gaagaaatgg 300  
 atgcaatggc aacttttagt tegtctcagt aaaaccagtg gattcaatc agcttttctt 360  
 gattattaat aatgtcttat tggcgtaac tactcttgat aagataaag tttcatattt 420

<223>

<223> DNA  
 <223> Glycine max

<223> unsure at all n locations  
 <400> 15245

agcttattaa ttgaaagttg ttctattgga agatcagata aacaaatag caagtatcat 60  
 tcttagaacc tacattctat tccattgtga ctttatatct aatctgaatt tagttgtgtc 120  
 ctatgtgata aacctagaga atatttgtat tcttactctt gcctgcttag ctttaaaaac 180  
 tagtgccaat ttggaatatt ttgagcaaa aacattagtt cttagtttat gcttatttta 240  
 tgtatacaat tcctttctgtg tgtggcagtt gagaggggtgg aacgagaagg atgatgttgt 300  
 agctaaatgg aagaaagtgc anaatgatat gtgcctacat gctcattgct ttgttagtga 360  
 tcccaattcc ttcttggtt tggctagtga attgagatat cacatat 407

<210> 15246  
 <211> 449  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15246

augactcaag ggagttagtg tggagattac tctnggatgg ngatgatgct attctgngac 60  
 tggcatgaga aggacctgtt tgagaagtat ttcacacggc ttctggcaaa gcaacttttg 120  
 tcccgaataa cagtctctga taatgcagaa agaagttctc tagttaagct caagacccaa 180  
 tgcagttatc aattcacctc taaattagag ggcattgtta cagacatgaa aacctctcta 240  
 gaaacattgc tgaactttta tatgccaacc accccaggtt aagcaacggc cctacgcttg 300  
 ccgtgcaggt ttgacaaca gggttttggc ctactcaatc tactgttana tgtaacctgc 360  
 cagaagatat ctcttcaatt tgtgagaaa gttcagtcata tattaacttg gcaacatcac 420

tggcaggaga tngtcctgca nactaatat

449

<210> 15247

<211> 343

<212> DNA

<213> Glycine max

atcttcaggtt ggttttgatg ataattccat gcataaatgc atataccana tagttaagg 120  
gagtaaaata tatattcttg tttacatgt atatgatatt ctactagcag ctaatgatcg 180  
gggttgtcta catgaggtga aacaatttct ctctaagaat tttagaatga aggatatggg 240  
tgatggatct tatgtcatcg acattaacat tcatacagat agatctctag gtattttggg 300  
tcgttcacag gaaacctata ttaacaaaat tttagacaga ttt 343

<210> 15248

<211> 400

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15248

agcttgcata gttagaaata tcttggttga ttccgatggt gtgaagtcbaa ggaaagattt 60  
ttctattgcc atgatgaggt catctatagt tttaggagcc tctttgtgtt gtaatgactg 120  
aatgycatta aagaagccaa gatctaagac attaaaatca agcaagtttg ggggttgaga 180  
aaccaatoga atgtcaaaac cgccttcaat agcagcttaa tggaagtctg tgtcatcttc 240  
atcaatgtga catggagcat tgccttggtg tatgaaaata gtttctcttc tatcccttat 300  
tggeatittt gctttgattg cagacaacac atgatgaata agaaaatgtt tgcttacttg 360  
ctattttatt gaagaatatt ggntcgttc catagtccct 400

<210> 15249

<211> 313

<212> DNA

<213> Glycine max

<400> 15249

ctgggggtcaa ttacgagtggt cggcatctc taaggacac aataggacat ccgaatcaaa 60

agttattacg tgggaactgtt cctagagctc cegatttcaa tctctagcgt ctogatatat 120  
 taaggggctc aatgggacat cegagttaaa agttattgtt gctcgacttt tcttagagct 180  
 ttcgtgttca atattgagcg tctgatata ttacagggct cgttgcgaca tccgactcaa 240

<210> 15150  
 <211> 495  
 <212> DNA  
 <213> Glycine max

<220> unsure at all n locations  
 <400> 15150

tacatagata ctaagctgct gencatggag ctctntatc tccacactn nttggttgga 60  
 ctattcttgg atggccttga ttntctcaag gtccacttgg acccatttc taccactac 120  
 aaaacctaag ataactatat tatctacaca aaaggtacac ttctctatat ttgcatagag 180  
 ggtgtttttc ctaaggactg aaagaacttg tttgagatgt cctaagtgat catctagget 240  
 cctactatac actaaaatat catcaaaata acaactaca aatctaccta tgaaatccct 300  
 taagacatga tgcataagcc tcataaaggt gcttggtgca ttagtgagcc caaaaggcat 360  
 cactagccat tcatacaaac canacttggc cttgaaagca gttntccact caatcaccc 420  
 ttctatnctg atttggtgat accactttaa gaacaatttt gaaagaattg caccatcaac 480  
 tcataagcaa tcatac 495

<210> 15151  
 <211> 471  
 <212> DNA  
 <213> Glycine max

<220> unsure at all n locations  
 <400> 15151

catgcgaagt gngtgggaatt cctagagcaa ttcttttatg ttatcaaaaca tanaaaggga 60  
 aaaggtaata ttgtagccga tgccttttct cggcgtcatg cattacttct tatgcttgaa 120  
 acaaaattga ttggtcttga atgttggaaa agcatgtatg aaaatgatga aacttttgg 180  
 gaaattttta aaaatgttga aaaattttca gaaaatgggt tcttttagaca tgaaggcttt 240

cttttcaaag aaaacaaatt gtgtgtgcoo aaatgttcta ctagaaattt gottgtttgt 300  
gaagcacatg aaggaggttt aatggngcat tttnggtcc aaaagactct anaaacatta 360  
aaagaacatt tttattggcc tcatatnann aargatgtgc agaaattntg tgaacattgc 420

<211> 406  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15252

agcttggtat tcnntatgat agaccagtga gctcacgtt caaagggaag ctagtatttg 60  
aggtgaacag gtatggcttc actgatggtg gagcttgggt tgatgggaac ctaaaactaat 120  
gcaatectac ccgcgaaggc cattggatag aaaactccaa gttagattaag ccagagatgc 180  
aagagaaggg cctaggattc ttatgagcct tacggtagat ttggggccca tgggctaagt 240  
atgagcccaac ttatctttgt aaatattaga ttaaggtttc attatttttg ggccttgtat 300  
atagagctcc ataatgtagg tagggtaccc tagaaatata tgaattttca gcccttgtat 360  
tttagggcac ctagactagt ttttgtatta cgggtagttt tgtaat 406

<210> 15253  
<211> 401  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15253

agctntgtgt atattaaaag acaataactt tttactcgga tgtctgattg agtcccgaaa 60  
tatatcgaga cgttcgaaat tgaatacga agcgttaagc aaattcaaac gacaaaaact 120  
tttactcgg atgtctgatt gagtcccgta atatatcgaa aagctcgaaat gtgaatgtag 180  
aagctctgag caaattcaaa caaataaac ttttactcg gatgtctgat tgagtcocgt 240  
aatatatcga gatctcgaa atggaataac gaagctcgga gcaaatcaaa acaataataa 300  
ctnttaactc gcatgtccga ttgagtcocg taatatatcg gaagcttga aatggaatgt 360  
agaagctctg agcanatca aacpacaant aactttact ag 420

1

15:55

15256

•



atattataaa aaattaaaaag cataaaaatag taaaattaat ttcaatttat ttttttttat 180  
 ttottataat tttttcatto atttataaaa aaatatatga aaataatacc ttttttttga 240  
 aggaggcaar ttattttttat tacacatata caaataatat ataataaat cataggaaca 300

<210> 15257  
 <211> 377  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15257

agctnnatgc atgaccacca atgggtctata tatatgtgac ttaaacacga aattaetdag 60  
 agatttttcag aa-aacaaaag tgtttatctt ctcaaaagagc aaatcattt tatctcttta 120  
 auaattcctt ggccaattca attgcaattc attaaggaat tatttgagtg ctcaactctgt 180  
 aaaatccatc tttttctaga gagatttgtt cttctctctc ttctcatttt ctaagggatt 240  
 aagagactgt gagtctcttg ttgtaaagga tctctaaaac caaaggaagg attgtccttg 300  
 tgtgttttaga acttgtaaaa ggaatttaca agatagtgya actctcaagc ggggttgcttg 360  
 ctgactgaac gtaagca 377

<210> 15258  
 <211> 402  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15258

agctngcnat tcatgghaac tctaatatc tcccaactc tttggagtgg gcaattcttg 60  
 gatggccttg atgtcttgag ggtccacttg gaacccattt ctaccaacta caaaacctaa 120  
 gaaaactata ttatctacac aaaaggtaca ctctctata tttgcataga gggcgttttt 180  
 cctaaggact gaaagaactt gcttgagatg tcttaagtga tcatctacgc tctactata 240  
 cactaaaaaa tcatctaaat aaacaactac aaatctact atgaaatccc ttaagacatg 300  
 atgcataagg ctcaaaaag tcttggcgc attagtgagc ccaataggca tcaatagcca 360

ttcatacata ccacacttgg tcttgaaagc acttttgcac tc

402

<210> 15259

<211> 401

<212> DNA

agcttttgat ttcccaagtg ccaatttgc tcttcttta gtcacagtctt cttctggctt 60

cattccatca gttggtcttc cttctgtgtc cagcatcttg ggtatgttcc agcctttgat 120

gacagcttcc caggttctgc tatccagtga ttgagaaaag gccaccatcc ttgctttcca 180

gtaaccatag ttgatgacag cactcttgtc aatgatttcc ttcattgctc ttaagtgcag 240

atgtccaaat ctttgatgac atattctgac ttcattctct ttggaggata gacatgtgga 300

gtagtaactg gttctctgag ggtcccatag gtaacagtgg tcccttgatc tcttgcctt 360

cattagaact tcactctctt catttgcac caagcattct g 401

<210> 15260

<211> 490

<212> DNA

<213> Glycine max

<23> unsure at all n locations

<400> 15260

gatagattga acgaatctag taactaatgc cagctttaat cgtatgtatg gatagactaa 60

agcagagagt gatcaatata aagaggctca caggctgtgg tcatgttgtc aagtatcaaa 120

tgatgtgaaa gaaatgctat tcaatggaca acaatatata taggagatat gataaacata 180

tgaaagggaa aaggaaaagg aaaagtaaga aagcaataga catgttaagt tatgtaatga 240

ggtaagtagg aaaaggaata atgaaatgga attaacacaa acattataga aaaatgacta 300

tattatttta aaagtaaca attatttaa aaatagaata taagtgatac tctattctga 360

atatatacaa aagaattaca cagtcagata acagaaatga gtatataata atgttctctt 420

cgttcttcta cactatatct atgtcttcca atggattatt cacaattgca catatataat 480

actcatctta 490

<210> 15261

<211> 339  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15261

atctgtgtg aaattttatg agctattttaa tttctcaaga gcttctgttg ttcaatttgc 180  
 agcctctoga catattatgc gcccgaaatg gacatccgtg tgaaaagtta tggccatttg 240  
 atctctoga gaatttccga tgtttaattt cgagcgtatc gatataattat aagcctgaat 300  
 tggacatccg tgtgaaaagc tatgaccatt tgaatttct 339

<210> 15262  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15262

tggattgag gtttaagaac cattattcac ttctgatcta acgaanacac tgtttatcgg 60  
 tgtatgtatc tgaaggtcag tgcgagtaag attattttct aattctgtat attgatgata 120  
 tcttgcttgc agctaattgat ctgggtcttc ttcatgagac taagacattg ctctctataa 180  
 actgtgaagc gaatgatatg ggtgaggtaa cctatgtgat acggatagaa atattccata 240  
 qtagatcaca tggattcgta cgcttatctc agaaagtata tatatcgatc aagtgcctaga 300  
 gagaatttaag atgaataggt gtttaacatc gcttattcta atttagaaat gagacagagt 360  
 tagtcttgca caattgccta gaaatgatat ggaatg 396

<210> 15263  
 <211> 381  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15263

agctgngtgn tntgcaattc taagacacta gagagcgggc aagtatatga catgtccac 60  
 ttgtactttt tctatctaat ttgcatactg caaaaacaga atatgaaaaa cctgttatgt 120

ttaaggaggt acctttaaga taccacataa gcaaacactt agcatgatat ccaatctact 180  
 tgcagatagg tajagaaggg attcaatcat acctctgtat cttgattcat ccaataattt 240  
 acctttctca tcaaaagttaa ggtaggttga tgtagacata cgagtaaatg cttctttgca 300

<210> 15264  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15264

ctgcttagat tctgggtctca gcttatctat gacaatgnta agctaagatg gctcacagag 60  
 tccatgggtg gtgctctttc ttaaccaaac tctaaacctc tccaatgctt cacttaagga 120  
 tccatcangg aactgatgaa atgatgaaat tgcagctttc ccttctgtag tctttgactc 180  
 ggggaagtat cacttcagaa atatatcaac aacttcttcc cactctctta gaetgctacc 240  
 cttaaatgaa tggagccacc tcttggtctc tctgccaag gaaaacgaaa ataggctgag 300  
 tttgatggct tcatctggta tgcctgcaat cttacagtg ttacaaattt caatgaatgt 360  
 tgcacaaatgt gcatag 376

<210> 15265  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<400> 15265

agcttgccat gattagaggg gtgggggtca cgagctatgc ggatacctaa tgcctccatt 60  
 tgcctgggac gcttgactgg tcttagttcg caagattcca acccttctga taccagaaga 120  
 agaccaaacg aagttgtgag tttctctatc aatggcggca tagattgact aatgcagcca 180  
 gaatagctgc ataatttaca ttggaaggga gcataggaca tatttagcta aacaaagtca 240  
 tccagcccta tccaaaagtt tcccttctca tgaagctagc cttctatgaa tcttatccaa 300  
 gataaaatcc aaagattgat ggtgtgtgtc ccttgcacc aaggaaaaac ctagatagcg 360

ggaaggttg gaaacactcg cgatgccaca aacatccttg aata

404

<210> 15266  
<211> 343  
<212> DNA  
<213> Glycine max

atattagga gtcacatgag cataacttgaa gccatgctg caaacattta taatagatcc 120  
gttcagcaac acaaccaaca acaagagaat aactatgac ttccaagcaa tagattcact 180  
tcacgtctga gaatcctcc aaatctgaga tgggcaagtg ctgcacaaca acaacaacct 240  
agaggtatctt tgcataaatgc tgcgtggcca agcaagccat atgttctctc tccaatccat 300  
tagcagcaat agcagcagtt acaacaaaga ctacaagcac ct 342

<210> 15267  
<211> 401  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15267

agcttggtat tcaatctcct gatgatggcg ttccatctgt tctcaagact ggactaatcc 60  
atttggtgcc caagtctcat ggtctcgcag gtgaagatcc tcataagcat cttaaggatt 120  
tccatatttt ttccaccat gaagccccat gatgtccaag aagatccatc ctttctaaag 180  
gcttttctct attctctgga gggagtgcca aaagattggc tatactacct tgcctccagg 240  
tccattttca gctaggatga ccttaagagg gtgttcttgg agaaattctt cctgcctct 300  
augaccactg ccatcagana agacatttca ggcatcagga aacttagtgg agagagcttg 360  
tatgagtact gggaaagatt caagaaattg tctgcaagct g 401

<210> 15268  
<211> 238  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15268

agcttgaatc gtacatccgt gcgaaaagnt atgaccatgc gaattttctca agagcttccg 60  
 ctgctcaatt tggagcctct cgacatatta tgcaccgaa tgggacatcc gtgtgaaaag 120  
 tcatgatcat ttgaattctt cgagagtttc cgatgtttaa tctcgagcgt atcaatattt 180  
 ctgagcttca gctgcttctt tgggctttaa attatgctt tttgatttt tttgagat 240

<212> DNA  
 <213> Glycine max

<400> 15269

ttctatagac acataagcct cgttattcaa tctcgagcgt ctgatatat ttacgggactc 60  
 aatcatacat ccgagtaaca agctattgtc gtgtgaatta tctctgatgt tcacaattcc 120  
 atttcaagcg tctcaataga ttacgggact caatcagaag tccgagcaaa aagttattgt 180  
 cgtttgaatt agcttagagc ttcaaaattc aatttcgac gtctcgatat atttggggac 240  
 tcaatcagac atccgagtaa aaagttattg gcgtttgaat ttgttcacag ctccaacatt 300  
 caatttcgag cgtgtcgatg tattacggga ctcaatc 360

<210> 15270  
 <211> 350  
 <212> DNA  
 <213> Glycine max

<400> 15270

agctttgttc taattcaaatt gacaataacc ttttgcctgg atgtctgatt gagtcccgtc 60  
 atatattgag agctctgaaa ttgaattctg aaccttagag ctaattcaaa cgacaataac 120  
 tttttactcg gatgtctgat tgagtcctgt aatctattga gagctctgaa attgaactct 180  
 gaaccttaga gctaatccaa acgacaataa cttattactc ggatgtctga ttgagtcctg 240  
 taatcacctg agagctctca aattgaatgt tgaaacctct agctaatcc aacgacaatg 300  
 actttttact cggatggcgc attgagttcc ggaatacacc gagacgctcg 360

<210> 15271  
 <211> 391  
 <212> DNA  
 <213> Glycine max

<400> 15271

agcttggttac ccattggaagc tcttaatatc tccacactt tttggggtgg gccattcttg 60

gatggccttg atttctcag ggtccacttg gacccattt ctaccaacta caaaacctaa 120

caactata ctctatctc cccctcctc ctctctata ctctatctc ctctctc

atgcataagc ctataaagg tgccttggtg attagtgcg ccaaaaggca tcaatagcca 360

ttatacaaa ccaacttgg tcttgaaagc 390

<410> 15272

<411> 278

<412> DNA

<413> Glycine max

<400> 15272

agctttttac attcacgtgc cttatggagc tcagagcctg aaactccgag caaaactcct 60

ttgaattccc accaccacag tgccttgctc caagcatggg ggtgctactc caagagttct 120

ttctccttgc agggacatgc gtgttcacaa tatgcttcac cggagagttct tcccatcttg 180

aaagagtgac cctgtacag tccccagagc ctctatccc tatgagattc tctgcttga 240

tggaaatctac aatctctccc tccgagaaac tcatcagc 278

<410> 15273

<411> 408

<412> DNA

<413> Glycine max

<421> unsure at all n locations

<400> 15273

ccctcagtc gcagaaccaa caactttaga ataattatga cctttcaagc aacagataca 60

atccgggtgg gaggaatcat ccaaatctaa gatgggcaag tcttcacaa caacaacagc 120

ctgtccctcc ctaccagaat gctgctggtc caagcaagcc atatgttcc tctctaatgc 180

aggaacaaca acaacaacaa caaagacaa aagcaactga ggcccttct ctacttct 240

tataggagtt agtaaggcaa atgacaatcc anaatatga atttcagcaa gacacaadag 300

ctctcatcca gactctgaca aatcagatgc tggggatggc taatcagatg aaccaagctc 360

aatcccaaaa ttctgacaaa tagccttcat aaactgtgca caatctga

408

<210> 15274

<211> 470

<212> DNA

<400> 15274

ttgttctata ttttaaggga ctcaattcaga ctcccgagta aatatattat gtggtttgga 60

ttggttcaga gaggaatat tcaatttcga gegtctccat atattacggg actcattcag 120

acatccgagt aaaaagttat tgtagtttga attagcttag agcttcaaca atcaatttcg 180

agtgtctcgt tatatcaaga gactcaatca gacatccgag taaaaagtta ttgtcgtttg 240

aatttggctca gaggttccac attcaatttt gagcgtctca atatattacg ggcctcaatc 300

agatatcga gtaaaaagtt attgtcgttt gaatttggctc agagcttcaa cattcaattt 360

cgagcgtctc gatatgtgac gagactcaat cagacatccg agtaaaaagt tattgtcgtt 420

tgaattggct cagagcttca acattcaatt tcgagcgtct cgatatatta 470

<210> 15275

<211> 181

<212> DNA

<213> Glycine max

<400> 15275

gagaaccagc gcatgagaga taacttcctt cagcttggtg aaagccttct ggccttcgg 60

cgaccaacga aattctgtctt tggccaagag ttgagttcaa ggtgccacta tggaaacgta 120

tcctttaata aactccgat agaagcctga caagccgaga aagcctctta aagctctggt 180

a 181

<210> 15276

<211> 400

<212> DNA

<213> Glycine max

<400> 15276

agctttttga aaattcttat ggtcataaact ttccacacag atgtatadatt aaagcccatc 60

gcatatagag aaactcgaaa atgaacaacc gaagctctcg agaaattgaa atggtcataa 120



cttttcacac tgagggtccga ttcaagctta taatatattg atatgctoga aattaaacat 180  
 cggaagctct cgagatattc aaatggctat aacttttcac atgaatgtcc gattcgggycg 240  
 cataatatgt cgagaagctc gaaatrgaac aacggaagct cttgagaaat tcaaatggtc 300

<210> 15277  
 <211> 396  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15277

caatttcgag cctctcgaca tattatgcac ccgaatccga catccgtgtg aaaagtcctg 60  
 acatntgaa tttctcgaga ggttcgctg ttttaatttc agcgtatcaa tattttataa 120  
 ccgtgaatcg gacctcagtg tgaaaagtta tgaccatttg aatttgaaga gagcttcctg 180  
 tgttcaatat cgaatatcac tatatgtgat gcgcctaaat tggacattcg agttgaatgt 240  
 tatgaccatt tggatttctc aagagattct gttgttcaaa ttcgagcgtc tcgagatctt 300  
 atgtgatcga atcggacatt cgtgtgaaaa gctatgacca ttggaatttc tcaagagctt 360  
 gctgtgggtca atttcgagcc tctcgacata ttatgc 396

<210> 15278  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15278

accttatcta ttaatttcga ccgtcttgat atgttaaggg actcaatcag acatccgata 60  
 aaaaagctat tgtcgtttga gttggctcag agcttcaaca ttaatttcg accgtctcga 120  
 tatgttaagg gactcaatca gacatccgag taaaaagtta ttgtcctttg tattggctca 180  
 gagcttcaac attcaatttc gagcgtctcg atatgtgaag ggaactcaatc agacatccga 240  
 gaaaaaagct attgtcgttc gagttgcctc agagcttcaa catccaattt cgagcgtctc 300  
 catatuttac gggartcaat cagacatccg agtaaanagt tatgtctctt tctataggtt 360

cagagcttca acattcaata tcgagcgtct cgatatgtta cgggaactcaa tc 412

<210> 15279

<211> 427

tctgttntca atntcgagcg tcctgataa ttacgggatt caatcgatca tccatcttac 60  
aagttattgc gaattgcatt ntctaccacc ttttgttttc cattaccagc atctcgatat 120  
attacgggac tccatcgagc atctcgagtg acaggtatta ttgggtttga tttttacaag 180  
cttccatttt caatttcgag cactcgata tattacggga ctcaatcgaa gatccgagtc 240  
aaaacttatt gtctgttgaa ttgtctcaca gcttctgtat tcaatttcaa gcgtctcgaa 300  
atagtaagag aactcctcgg atctccgagt taaaagttat tgtcatttga atntgctcag 360  
agcatcttgc cataccctaa tttcgtccgg gcatctttgc ttgatgacat gcgaccttcc 420  
tttggcc 427

<210> 15280

<211> 443

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15280

agcttgtata catgatttng aattttatga tctaatagc tccgtgtttg ggaaacataa 60  
aattctcttt caatgtatcc atttacgaaa acactnttga catccatttg gtatagtttg 120  
aaatccataa cacaagcata agcaaataga aatcttataa cctctaatct agctaccggt 180  
gcataggttt aacnaaagtc tatatgctct tgttgagtat agcccttggc tactagcctt 240  
gctttattcc taatgatcaa accatgttca tccgatttat ttttaaacac ccatntagty 300  
ctaattggtgt gcatatcttt agaataagat adccaattcc atacatcatt ccttttraat 360  
tggttcaact cctcatacat ggacattatc caaaactcat ctttaagtgc cttctctata 420  
gacatgggtt ctaattgaga cac 443

<210> 15281  
 <211> 416  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations

ttttaacaa aattcaatag ctcttttggc aatatacctt tcaataatag atccttcaag 180  
 atagtttaga ttcttttgcct acccttttat gatcttcctg tctcaactca ccaggtatat 240  
 ctactacaaa taatggggac cacaacattt aatttccttc accagatgaa caattaagtg 300  
 ctgaacctg atgtcaaaaa acanaggagg ataatacctc tccaactgac aaaataaaat 360  
 agcaacctcg ttctcaactc atctaacttg agaggatcaa tgaacttact acatat 416

<210> 15282  
 <211> 464  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 15282

agagaatata atctctctng aaaagcaaat cactgatct gcattcttta ttgcaactcaa 60  
 atattcaacca ctnggtgaaa catcagccac agaattcaac aaattctctc tgggtatcct 120  
 cacattatca aacctgaaga cacatgtgaa taatttctgc gtttactctt ttatataaaa 180  
 tntcatttct aggtgcaact tgtttgaaaa atgtatatat taccagatac ggcattatc 240  
 aactccattt aaaccaattt tgtgaccaca atcagctatt cggatgtttg gacatatgtt 300  
 tccatctgaa tccctgattt gngcaataaa tgcctgcacc ccttgattgc tccatttata 360  
 tagagctgtg aaaagactat agtgtgggtt gcctgttgaa taaaagaaca agttaatata 420  
 agggtaatat atacaaagtt ggagccagtg aaaaatgtat catg 464

<210> 15283  
 <211> 455  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations





tttttccctg catctatgac cattgccatc agaaaagaca tttcaagpat caagcaactt 360  
 agtggagaaa gcttgatgaa tacttg 386

<100> unsure at all n locations  
 15288

agcttatatc acataattga caaactctta ataaactatg cttaagacca tcaacaagta 60  
 aaacatttcc catggaggta gagggattca aacctatttt tccaactcca agaattntac 120  
 ctttgtgtt gtctccatag gtcacatgtt tactattttt ggaagaaata tgaataaact 180  
 ntgatgcac tcccatcatg tgttcagagc aaccgctatc aatgtaacca ttatgcttca 240  
 aggagtcttc cattcatata accatatntt gatttttggtt cccanatttt cttgngttct 300  
 taaatgttag ttatgactaa cgatcctttt ggaaccata ccatttttct aatgctacta 360  
 ccattcttcc taatataaca tattgatgca ctataacctt tcttaccaca atanaagcat 420  
 g 421

<210> 15289  
 <211> 287  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15289

agcttgaagg anaactatat gcattgttta acttgtttac ccagctagcc ttgaatcata 60  
 aatcgtacc tgtcgcaaga gtctgtggtt tgtgctctc tgcagaccac catacatacc 120  
 tttgcctgt catgcagcat cctggagcaa ttgagcagcc ctaatctcat gctgcataca 180  
 ttactatag acctcttcaa cctcagcagg caaatcaacc acagcagaac atttatgacc 240  
 tcccatgcac atatacaacc ctggatggat gaatcacctt tactca 287

<210> 15290  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<400> 15290

agcttgaagg taagttatga tgagtgtagg agagggggaa gggggaacaa aattttgata 60  
gagaagaat gaagaatgaa gtatgaactt tgaagactaa tttctcatca aagtttcaaa 120  
gattatgat caattatgaat aacacactcc ttggaaacaa ggtaatgttc ctaagtttgg 300  
tgggtctcaa ctaaggcata caactcccta tcatatgttg agtgggttag agtggcatca 360  
tgaaattctt caataaagta tgcaagaggg tgcacacott gcaacaacat aggtctccac 420  
tctacac 428

<410> 15291

<411> 431

<412> DNA

<413> Glycine max

<423> unsure at all n locations

<400> 15291

tccacccena tatctcaagt ttaggtaag aattcaagac cctttggaag gtacactgaa 60  
ttaattctct cagagctctc attgtgagat ntgaaagtga gtaatctcag gtttggcacc 120  
ttctgaata ctctggagct taaatttata tgtgtaattt gagtcatate taaccatatt 180  
ccttcaactg cagcagttcc ctgacaaata ataattagaa ttaatgttta catcttttgt 240  
aataatttgg caattttata ccaagagttt aggaatgcaa gtcaaagtat cattaacata 300  
ctctattatt tgcacataca tcatagatnt ccacaggacc ccacaatcta ctgcgttgcc 360  
ctgganatnt aacagattct tcacgaacaa cttctctacc catttcttgt atcagatcgt 420  
gcatactat g 431

<410> 15292

<411> 407

<412> DNA

<413> Glycine max

<423> unsure at all n locations

<400> 15292

adctntgagg caattttatt gataatatac gtttaactgg atgtcccaatt gagtcccgta 60

atatatcgac aggtcgaaa ttgaatgttg aagctctgag ccaattcata caacaataac 120  
 tntttactcg gatgtccgat tgagtgaatt aatatatcgg gaggtcgaa attgaaatgtt 180  
 gaaactctga gaaattcac agacaataa ctttntagtc ggaatgtctga ttgagttccg 240  
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt  
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt  
 ttgaagctct gagcaattc aaacgaaat aactttttat tgggatg 300

<210> 15293  
 <211> 371  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15293

gctaacatto aactntgtgc gtctcgatat attacgggac tcaatcagac ttcagagtaa 60  
 aaagtatttg tegtatgaat tggcttaaag cttaaacatt caactgtgag cgtctcgata 120  
 tattacggga ctcaatcata catccgagtg acaagttatt gcggtttgaa ttggctcaga 180  
 ggttcaaaaat tcaatttcga gcgtctcgat atattacggg actcaatcag acatccgagt 240  
 aaaaaagtat tgtcgcttga attggctcag agggctcaaca ttcaattttg agcgtctcaa 300  
 tatattatgg gactcaatct gacatccgag taagaagtta ttgtccgcta aattggctca 360  
 taagttcaac a 371

<210> 15294  
 <211> 462  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15294

agcttgcaaa tctttttatt gaactgttat tcaaaaccaa gaggtgtgtc catgtagact 60  
 tctctctcta agtccccatt taaaaaggca ttctttacgt caagttgttg taatgttcaa 120  
 tctaaatttg cagccaatga taagaggact ctaatggtgt taagttttgc aacagdaaca 180  
 aaagttttct agtaatcaat accataggtt tgggtgaagc ctttggcaac tagcctggcc 240  
 ttgtacctct caacaaaccc atgttggtta tacttgatag taaacaccca ttgtctccc 300



asgggtgtn ttctcttgg taggtccacc actttccaag tctgatntt ttctagaget 360  
 cccatctctt ccatgacagc ttctctccac ttaagaaccc cttagagcttc ctgtatatct 420  
 cctgggtattt ctatanttgt cagttcacaa gtaaaagctc ta 462

<213> Glycine max

<223> unsure at all n locations

<422> 15295

agtttactaa tctgggttaa atctctctcc ataaataaat taaattcaaa tctagataag 60  
 ataagataag atttagatta aataatatct agatgagaaa ttcaaatcta gataagataa 120  
 gacacagatct agattaaata atatctagat gagaaattca aatctagata agataagata 180  
 agatctagat taagtaatat cttagtgaga aattccacatc tagataagat aagatctaga 240  
 tcaataatg tctagatgag atcaaatcta aataatatct agatgagata aagatcagat 300  
 aagatctaatt tctgtagaat aaaatagctt gccctcttca agtccaagcc caattctgga 360  
 ttcataccca tgcctcgattc tgga 384

<211> 15296

<211> 407

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15296

agctttttat tctcagtaga tgaagatgaa tctgtggcca cctcatggac tctcttaaga 60  
 acaatatcat cctttcttgc actgaatttg tgggagccat cttctcaatc aaatttctag 120  
 cctcaaacag gtcatacac caaaagcttc accattggca gcttcagta tactctcttc 180  
 catgtttgta agtccctcat agaaatattg aagaaggagt tgcctcagaaa tctgggtggtg 240  
 aggacaactt gcacacaatt tcttgaattct ttcccagtae ttatadaagc tntctccact 300  
 aagttgcctg atgaacctaaa tctctttctt gatggtagtg gtcctagatg cagggaagaa 360  
 tntctccaag aacacctctt taaggttatc cagctganta tggacct 407



ttctggaagt gtggaagcaa aaggaccagt tgagagactt caaagtaaga aagcacaaga 130  
tagtgggtgag aatgggtgggt ttaacattga gtgcaggtgt ttggatcaag tggactcttt 240  
gggattgata atgatcacca atagaacgag gtacettata aattggctgg tgaactccat 300  
atgattcttga atgattcttga atgattcttga atgattcttga atgattcttga

<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15300

gaagagggca ttctattgat tangaacaa gtagtaagca cccggtctcc ccaatgatgt 60  
gtacgaacat tgaatttag cattatggaa cyagcagttt caagaagatg tggattcttc 120  
cttctctgta taccattctt gtgtggagtg tctggacatg tggactgatg tataatacct 180  
ttggaagaca aaaaagaaga aagatcatgc gagaagtact ctttagcatt atcaactctg 240  
aaaattntaa ttggtcatcc aaaatgatcc tcaatctcat tgagaatgac acgaatatag 300  
gcaaaagtcc agatctgtct ttcattagat aaaccaagt acatctggag aattcatcaa 360  
taaaggttac gaaatatcga ataccaatag atgtgac 397

<210> 15301  
<211> 367  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<400> 15301

agcttgatg tgcgtacccc accattgttc atagtataac attggtaatg tgtctactat 60  
tattgtgac atctcttct cgggcattgg aggtgccact tgagctgccg ggtctctcca 120  
cctttggggc tattcttga aagatctgtg ccccttattg cactgttct atagttgcat 180  
ctatccgga gccatcag aattgtactg ataetgccca accaatgcaa ccattaggtc 240  
tttccagaa tggactcgag aaggttccaa gghatgtgta ccangtaaca gctaccagt 300  
aagaattctt tgggaagacat gtatcagcag tttctcatct ttccggtatg ccccatctt 360  
ccgacaa 367

<210> 15302  
 <211> 457  
 <212> DNA  
 <213> Glycine max

aaattagata aatacaatcc aattatagat aaattacat cctttagaat atattatag 1  
 aagattccct actacaaaga ctactcaaaa tgcctcgaaa tacaaggcta aaatccctata 130  
 ctactagaat ggccaaatac aaggcccaaa cgaaggaaaa acatattcta atatttataa 240  
 agataagtag gacataactt aggcacatgg ctcgaaatct atcctaagga tcatgagaac 300  
 cttaggggct tcccttggat ctctggcacc atctacttgg agtcttctat ccaatgctct 360  
 tgcgngtan gattgcata tccctccac ctgggaaagg atttgacctt aaatcttgag 420  
 attctcata ctctgggctt ccttctccaa caactat 457

<210> 15303  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<400> 15303  
 caattcagag tcttcataaa tgacgaattg gtcttttagtt cttcttaagt acttaagtat 60  
 ggtcttaacc acttttcaat tgtcttcacc aacgtttgct tgatatcaac tatgtacacc 120  
 taatgcataa ggcacatcat gacgtgtata agtcatgggtg tacatgatag cctccagtgc 180  
 actagcatat ggtactctac tgggtgttc tctttcttca cgagttgggtg gacagttctc 240  
 cctactaaga gtaaattcca caactacagg caaatagcct tgtttggaat atccatgtat 300  
 atctcttaag atagatcaat gacatagatt ggagagtcaa gcacctattg atcttctcta 360  
 taattttata ccaaatatag tgttctccac atctcatgga aatgt 405

<210> 15304  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> ensure at all n locations

<400> 15304

tctatagaag gttcatteect aattttctcta caatagcacc acctctcaat gagtagatga 60

agaagaacgt ggcatttacc tggggtgaan aacaagagca agcctctgct ttgctctaag 120

gagctctctgct ggcctctctgct ggcctctctgct ggcctctctgct ggcctctctgct

ctatagccgt tatagagtc ctctaaactt ggggaacata ctttatctcc aatgaatttc 240

gcattcatag cgatcatcaa tcaatttaagt aca 300

<210> 15305

<211> 435

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15305

tgcagctttt tagatccggt catggaaaga cttggcaact gccttcatta ggcagtacca 60

atacaacaag gatatggctc ctgatcgga ccaacttcag agcatgacca agcgggagca 120

tgagctcatt aaagaatatg ctcanagggt gagagacctt tcagcccaag tcttcccccc 180

tatgactgac agggaaatga tcacgattat ggtagatacg ttgccacat tctactacga 240

gaagctgata tgatatatgc cggctaactn tgcagacctc gtcttctgctg gagaaagaat 300

cgagctcgga ctgatgaaag gcaagtttga atatgcctcc agcgttgccc ccaacaacaa 360

tagaagagcc ncagtgggtg gcacacgga gaaggaagga gatacccacg cgatccacc 420

cgccttaaca tggat 435

<210> 15306

<211> 400

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15306

agcttctttt nttaaaggca tttactacac cgtcaaacan atatgaaaat aatcagctgc 60

cggtatttgt ttggtagcta aaacaaggca gaaattttaa atttaattgaa aagatcaatg 120

gttaaggaat gataatgtaa actaatnttt atttctcaatt aatactcaat taatttttaa 180  
 tggcatnttc taattgatat aattnttaag ataattctat taacaaatta acanaggtgt 240  
 attttggtta attgtattct tcaaaaagtg tttttttatt aatatgcttg tctaaactat 300  
 atttctttt atttctttt atttctttt atttctttt atttctttt atttctttt

<11> 15307  
 <11> 185  
 <12> DNA  
 <13> Glycine max

<400> 15307  
 agctttgggtt ctaatagctc caatcaagtc tattcccat atagagaacg accaaggcgc 60  
 tgcgaagaca ttcaaaggta caggtgaagc attgacatta ttgaagaagg cctgacaact 120  
 gtggcaacttt ctcacatgga tgcacaatc gttctccata gtgagccagt aataccctgc 180  
 tatcaaaaatc ttctggggca tggcatttcc attggcatgt gttacaaaagg atccctcagc 240  
 taattccact agcatctgtc tagctccctt ggcctccaca catogaagca aaacatatac 300  
 atgggtctctc tatgatggga aaaccaagtg cttgggttcaa gttggatctt ctaggatgga 360  
 atttgtgcac caggagcaac aaccc 385

<110> 15308  
 <11> 462  
 <12> DNA  
 <13> Glycine max

<223> unsure at all n locations  
 <400> 15308

cgtacnncca ccattttcat agtagaacat tggtaatgtg tttactatca ttgtaataat 60  
 ctctctctat gttattgagg gtgtacttg agctgcacaa tctttccacc tctgggcata 120  
 tctcttgaag gattcatgct cttttttgca catgttctat agttgcactc tatctgaagc 180  
 catatcagaa ttgtaactgt actgtttaac gaacacaaac attaggtctt tccaagaatg 240  
 gactcaggaa ggttcttaag ttagtatacc aggtgatagt tctcttagta agaatttctt 300  
 angagaaatg tattaacagt tctctctctt ttgtgtatgc cctcatcttc cgacaatcac 360  
 tcttttagatg gttcttggag caagtatctc cctgtacttc gtcaaaagtc gacaccttga 420

acttgngaat gaccatgttc gggactaag aacaactctt ct

462

<210> 15309

<211> 361

tcaagtttga caggtttgaa atatatctct gatgtcttat argtgcttga cactgacaa 60  
aatctactta gtattgttca gtttgttagag aaaggcttca aagtttatatt tgaagaaaat 120  
tgggtgcttga tcaagatgc aataggaaaa gaggtattta gggtaaaaat gagggctaaa 180  
agctatgctt taaatctaat ggaggagaag caaatagctt ttccaagcat gaccaccaat 240  
gttgaactat ggacaaaaag gtcggacac ttccatcttg ctagaacttt atgcattcaa 300  
aacatgctt tgggtgaagg tgtgtcaatc ctgaagaca agttagccga ttgcttggt 360  
tcccaatatg gtgagctagt c 381

<210> 15310

<211> 356

<212> DNA

<213> Glycine max

<400> 15310

agctttaaca ttcaacttcg agcgtcttga tatattacag gactcaatca aacatccgag 60  
aaaaaagtta ttgtcgtttg aatttgcctc gaggttcaac attcaatttc gagcgtctcg 120  
ttatattaca ggaactcaatc agccatccga gtaaaaagtt attgtcgttt gaattggctg 180  
agagcttcaa cactcaattt cgagcgtctc gatatgttac gggactcaaa cagacatccg 240  
agtaaaaatt tattgtcgtt tgaattggct cagagcatca acattcaatt tcgagcgtct 300  
cgatatatga cgggactcaa tcagacattc gagtaaaaag ttattgtcgt ttgaat 356

<210> 15311

<211> 476

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15311

gacactatga tactcagctt gagecattca nacaacaata acgttntact cggatgtctg 60  
attgigtctc gtaacatata gagacgctcg aaattgaatg ttgaagctct gagccaattc 120  
aaaagacaat aacttttttc tccgatgtct gattgagctc cgtaatatat cgagacgctc 180  
gattgagctc gattgagctc gattgagctc gattgagctc gattgagctc gattgagctc

togaaattga atgttgaacc tctatgcctc tctaaagcag tctaaagcag tctaaagcag 420  
tatgatngag tctcgtaaca tctcgagacg ctctganattg aatgttgaag ctctga 476

<210> 15312  
<211> 333  
<212> DNA  
<213> Glycine max

<409> 15312  
agtattgatg taacatttgg agaggttaat gaaacaacga gatgatgcgc tccatgagag 60  
gttggatcaa atggagaata gagaccatat gaattgctca agagcttcca ttgttcaatt 120  
tcgagcgtct agatatataa tgcgcctcaa tcggacctcc gagttaaaag ttatgacct 180  
tggaaatgct caagagcttc cattgttcaa ttctgagcgt caccgatata tatgcacctg 240  
aatcggaact gcgagtgaac acttatgacc atttgaattg ctcaagagct tccattgttc 300  
aattttgagc gtcacgatat attatgcacc tgaatcggac ctgcgagtga caacttatga 360  
ccattttgaa ttgctcaaga gct 383

<210> 15313  
<211> 344  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<409> 15313

agcttgagtt gtaaaagcca aaagtgcacg tgattaatad ttgtaacttg ttgaagttaa 60  
tgaaacttgg ttgttagcca agaactggac atatgggggg atgatgcaat cctaccccca 120  
agggcattgg atagaagact ccaagaagat ttgggtcagaa ctactgaaga agggcctatg 180  
gttaggtttt ttggccatgg actaagtatg agctcactta tcttctgaca tcttagatga 240



gggtttcatt attttttggc cttgtattta gggctccata gtgtagggag ggtaccctag 300  
 taaagtagga tctttcagcc tatgtattnt agggcacata gact 344

<L10> 15314

<L23> unsure at all n locations  
 <L400> 15314

ctcactcgga ggcccgatcc angccgataa tatatcgaga cgtctcganat tgaacaaagg 60  
 aagctatcga gaaattcana tggtaaatcc ttcgaactcg gaggtccctat taagggtgat 120  
 atatatcga gacgtccaaa atgtgtacaat ggaagctctc tggctatada aatgggtcata 180  
 actttcact cgaaggtccg attaaggcgc ataatatatc gagaggtcca aaattgaaca 240  
 atggaagctc ttgagcaatt caaatgggtc aaacttctca ctgggaggtc cgattcagct 300  
 gcataatata tggagacgct cgaaattgaa caatggaagc tcttgagcaa ttcnatgggt 360  
 cataacttgt cactogaagg tccgattcag gcgcataata tatcgagaca c 411

<L10> 15315  
 <L11> 335  
 <L12> DNA  
 <L13> Glycine max

<L23> unsure at all n locations  
 <L400> 15315

agtcttctag caaattccaaa cgacaataac tttttactcg ggtgtccgat tgagttcagt 60  
 aatatatcga gacacttgaa atagaaaacg aaaacttgta gcaagtgcat accacaatca 120  
 attntaactc gtcccgaaat atgttgagat gctcgaaatt gaaaaagaaa tttcatagca 180  
 aattccaaacg acaataactt tttacacgga tgttcgattg agtcccgtaa tatatcgaga 240  
 tgcctccaat tgaaaaacgga tgcctcaatc atattcagac gacaataact tttacacggt 300  
 atgtctgatt gagtcccgta atatatcgag acgct 335

<L10> 15316  
 <L11> 496  
 <L12> DNA  
 <L13> Glycine max



aaacaaatcc atgtatgggt tanagcaatc cncacgcaa tggaaatagga gacttgatga 60  
 atttatgggt cacataaagt ttcatagaag tcactatgat aattgtgtct acttcaaatt 120  
 ccctctataa gtccagtttg tgatattgct attatatggt gatgatattt tgatagcaag 180  
 . . . . .  
 . . . . .

<210> 15319  
 <211> 353  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15319

agcttaaagg atgtgaacaa attagcatgg gcagaaatgt cctccgcatg atgggtaaat 60  
 ctgttcccca aattcttgaa aaatgtaaag atccaggtac attagcata ccttgtatta 120  
 tagggaatag taagtttgac aatgccatgc tagatttagg agcttctggt agagctatgc 180  
 ctctgtctat ttttaattct ctatctctag gtcccttgca gtcaactgat gtggtaattc 240  
 atttagctaa tagaagtgct gccatctctg ttggtttcat agaagatgct ttagtttagag 300  
 ttgggtgaact gattctccct gttgattttt atatnttgaa tatggaggat ggg 353

<210> 15320  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15320

cggtgacaaa ggcataatggg aggccttact tgcataatgag gtgttctctat gtgaacttct 60  
 ccaccttatt agttgtaatt tctcacagtg gtcttgccctc gatcccttgn gtgaagtaat 120  
 cgattgccat tagtaaggtat ttaactgttc ttggggccctt taacagtggc cccagttatgt 180  
 tcatctctca catggcaaaag ggccatgagg agctccactt atggagattg ccgggagggg 240  
 tgcattggaat gcttgcaaac tcatggcctc atctgcatct ctttgtaaaag tcaagggtgt 300  
 ttgccttgaa tgttggccag tagtagccaa caagcaccac ctttgttgaa ggcctctctc 360

ccagtatgga gatcgaatat tccatcgtgg agtcctctca tgacataatt tgetag 416

<210> 15321  
 <211> 385  
 <212> DNA  
 <213> Glycine max

atttttgggc aactdaagca ttttaataac aatattatg ctaggcaca ttatattatg  
 caagaatata accataatcg ttggttgaaa aaaactttta atggaagata ggagtttgga 120  
 ttgccccga tactaataac agaaaaaaaa atttatgagc gagtggagga aatatgtact 180  
 atcttttgga agatccaaaa gaaggatgca aatgagaaaa acaaatggaa aaagagggtc 240  
 atattctttg atctccata ttggtttgtc ctanattgta gatattgtat tgacatgatg 300  
 atgtgggaga aaaatgtatg tgatagtta atcagcacac ttcttaacat taaaggcaag 360  
 acaaatgatg gtttgaatgc tctgc 385

<210> 15322  
 <211> 308  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15322

tcttggtatgc ctaagtgtgg accctctagg gcaatcctcc atttccattt attttgagcc 60  
 ccattgaatgt catggcctag cgtagctcat gtgtactaca ccttcgagta tggagccccg 120  
 cgaatgtcat cgtctagctc tattagccaa ttctccattc cacactttta tttggagccc 180  
 catgagtgtc attgcttagc gctgtacatg tgcctccac cttcaagtct ggagctatgc 240  
 ttcattgaatg cctaagngtg aaccctcttg tgcaatgtc cattctccac ttttattctg 300  
 agcctcat 308

<210> 15323  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15323

cactcaagct ntctcttttg tgcaactatc tcctctctt tttcaggtgt agaatgaagc 60  
 ttgtcttgtt ttgggtgcag tgctgtact ggtggagaca cttgaatttg gattccagac 120  
 ctcaaggtga tggcactcac attttcaga ttctgcacag ttgtcaagg atatttgtca 180

actaatctt cttaaggagg ttgagaaga gctcagttg ctgggtggt ttgtgagac 240  
 tgcctgtgta ttggaggagg aacatattgc ttgcttgtaa cagcaacatt ct 412

<210> 15324  
 <211> 503  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15324

cctctctatt gggaatcac aactgatgga tatgtagcat ttgttatgat ttagttagga 60  
 aggttctct ctaagagcaa aattataatc taagcaagtt cggttaggct ctcaagtggc 120  
 tgacaagtct cgtttaagtg gtcttttttg ccttggttaa caacaaaatc gagtgttagg 180  
 tgcacaaatt ggaaagctcc actacacata atagcagtat tatttatctc aatatttgtt 240  
 tatgcattca tggtaagttt gcttatntg tctgtgtggt cctctctatt tatgaactnt 300  
 gagaattata tgttatgata tatttcactt atttgatgag atgaactatc angtggaagg 360  
 gtcagcagtc ctgcaggca cagagtagaa gatccatctt caaatagagt accgtgtgat 420  
 gcattaatgg agtaatgtgt ttatgtgctt gtgacagtaa gtcttgcatg canggccatg 480  
 taaatacctt taatgataac tat 503

<210> 15325  
 <211> 316  
 <212> DNA  
 <213> Glycine max

<400> 15325

gacattcata tatcaagtat cataatatta tcataaaaac taagaacata aaatatcatt 60  
 attataatc aagtcattca aacacatgca taataattaa tctacacaca cacacagtta 120

gacaaagtac ataaattctc tgtaaacata cagtatttga caatttataa tgtaatat 180  
gaataacatt atccaaagta agcaattctt aaaaaaatta tcatgtcttt ataattctca 240  
ataactttta tagtaacttt aatagatgaa atgtagctgt attagcagat ggataatcat 300  
gagcttcttc atcttcttctt

<12> DNA  
<13> Glycine max

<23> unsure at all n locations  
<40> 15326

actttgaga aaattcaaac gacaataact ttttactcgg atgtctgatt ggtcccgaa 60  
atatatcgag acgtctgaaa ttgaataccg aagcgctaag caaattcaaa cgacaaaaac 120  
tttttactcg gatgtctgat ttggtccctt aatatatcga aaagctcgaa tttgaatgta 180  
gaagctctga gcaattcaaa acaacaataa tttttactc ggatgtctga ttggtcccg 240  
taatatatcg agatgtctga aatggaatac cgaagctctg agcaaatcca aacgataata 300  
acttttactc cggatgtccg attgagtcct gtaatatatc ggaacgctcg aaattgaatg 360  
tagaagctct gagcaaatc aacgacaata acttttac 398

<10> 15327  
<11> 492  
<12> DNA  
<13> Glycine max

<23> unsure at all n locations  
<40> 15327

gctttcatat attacgggac tcaatcggac ttctatttaa naagttattg tagtttgaat 60  
gtgtcaggg ctctggtatt ccatttcgag cgtctcgata tttacggga ctcaatcgga 120  
catcagagta aaaagttatt gttgtctgaa ttgtctcaga gcttcggtat tccatttcga 180  
gcattctgat atattacggg actcaatcag acatccgagt aaaaagttat ttgagtttga 240  
attgtctcac agcttcggca ttccatttcg agcgtctcga ttgtattacgg caattcaatca 300  
gacatccgag taanaagtha ttgtcgtttg aattgtctga gagcttctac attcaattgc 360  
gagcttttcg atattattac ggactcaatc agacatccga gtaanaagat atgggtctgt 420

gcaattgctc agagcttcag tattccattt agagcgtctc gatataattac aggactcant 430  
 cagacatcgg ag 492

<210> 15328

gctatctatg cttttacctc aaattttatt ttggtgaatt tatctatcaa agcattcacc 60  
 ctcaacattt aagagacttg tgagtntac cttctatcaa ttacacata acataatttc 120  
 acctntaac ccciatnttt ttttggcaa attttacct gatctttgt tcttaataat 180  
 ggataatgat aggaataaag taagcaagtt ttctaaaag tcaagagtaa aatgtgtcaa 240  
 attaatntt tgaaataaaa attcgcaca aaaaattggc ggtaaaaagt gtaattaagc 300  
 caaattaact actattttca tcttactttt tcttgtctt tctaaaaaa tatatgacaa 360  
 ctattattgt gaaacggagg gagtaacatt atccattctt actaganaan naatattcat 420  
 tcttttgtat attacaagaa atagctatga taacccaaga aatatgagtt ntgettacca 480  
 tggattgat atgaagtatc tatcacacaa gatcatgac 519

<210> 15329

<211> 484

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15329

atggtatggt atagagaata aaattattat gttgtccctt tgtnttctt ctccatcatt 60  
 tctcaattaa tntcttctt taacgcattt gcatatgcag gttgagaacc atgaaattga 120  
 cncacaactg atggngaagg tgaagcagtt gatcaatgca tactatgagg aaaacctgaa 180  
 gaaaagcttc taccagtctg agatagccaa gaggttggag aaacagcaga acacctctga 240  
 tatagattgg gaaagtaact tcttcatttg gcctgcctcc acctctaaac tcaatgaaat 300  
 ttcaaacatc tctcangagc tntggtaagt caatccatat atgttccctt ntcttnttt 360  
 ttacctacat gtaattctt atagagataa tntgattga gacacattta aacactatat 420

gtgaatatatt ctccanacat anattcanac ttgattacc atgtggtgga aactaacct 480  
tatg 484

<110> 15330

<111> 15331

agcccttgaa ctacttcaca ttgatttatt tggccctca agaactatgc gtttatgtgg 60  
aaattactat ggcttagtaa tagtagatga ttactcaaat ttcttggact ttgtttttga 120  
aaacaaaaaa tgaagctttt gatgattttc acaaacttgc caaggtgatt caaaatgaaa 180  
aaggctcaca cattgtttca attagaagtg atcatggagg tgaatttcaa aatgaacttt 240  
atgaanaata tgaattcac cataattttt ctgcctcaag aacatctcan gagaactggtg 300  
ttgtggagag gaaaaataga tccattgaat aatgtgcaag agaccttota tatgaaacaa 360  
ggttaacctaa gtactatata gaagaatgta tacatacgtg ttgttccacc ttgaacagag 420  
taattattag acctatct 438

<110> 15331

<111> 417

<112> DNA

<113> Glycine max

<223> unsure at all n locations

<400> 15331

gcttctacat tcaatntcga gctnttcgaa tattacggga ctcaatcggg ctctctctatt 60  
atttagttat cgtagtttga attgtctcag ggcttcggga ttccatttcg agcgtctcga 120  
tatattacgg gactcaatcg gacatcagag taaaagttta ttgttggttg aatttgctca 180  
gagcttctgt attccatttc gagcctctcg atatattacg ggactcaate agacatcggg 240  
gtaaaaagtt attgtagttt caatatgctc agggcttcgg tattccattt cgagcgtctc 300  
gatgtattac gggactcaat caccatcctg agtaaaaagg tattgtcgtt tgaagttgct 360  
cagagcttct acattcaatt tcgagctggt cgtatatatta cgggaactcaa tcagaca 417

<110> 15332



<211> 391  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15332

ttttatcatt attgcaatga aadaacatta attaaaatga tttattaggg ttaaacatta 120  
 attggtgttaa ttactaaaaa aactaagtat ttgttaaatg gttttcatat tgtcaaaggg 240  
 atttaactta ggtaggta agogaacgaa ttattgtaaa tttttttatc ttttaattcct 360  
 agaacaaaa naattaattt tatattntaa aattntatta ttatcataac attgatggga 360  
 aactaatata ttacttagac attntttatt a 391

<210> 15333  
 <211> 385  
 <212> DNA  
 <213> Glycine max

<400> 15333

agtttaattg gttcaggccg gtttggacaa gtctacgaag gaatgctaca agataatata 60  
 agagtagctg tgaaggtgat ggatacaacg catggtgaga tttcaaggag ctttagaagg 120  
 gaatatcaaa ttctgaaaaa gattaggcac agaaatttaa taaggatcat cacaatttgc 180  
 tgtaggccag aatttaaatgc ccttgTTTTT cccttgatgc caaatggtag ccttgagaag 240  
 tacctatata caagccaaag gttggatgtg gtcgaattgg taagaatctg cagtgatgta 300  
 gccgatggaa tgtccatatc gcaccattac tctccagtga aagtagtgca ttgagatctt 360  
 aagccaagca atatactcct tgatg 385

<210> 15334  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15334

agttttatat atttccatt ttatatatt aggactatga aagttttacc tgaaatgttg 60



atctttttgta tgtcattgag tccagacctg acattatggt cagtgatatgc ttct 414

<210> 15337

<211> 471

tttgacata ttctgggag aaatgatgat cgtgtttat gtttttgat cgttcattat 60  
 ggtatgggtt ggaagcaaga catatagcag atttattatc acaaaatagc atcacagagg 120  
 gtaattcaac ttcaaaagtaa agaagtaact agcttaacct aacaatttca ctagttaacag 180  
 aagacaacgc atgatattaa gcttcactgg atgattctga aacagtgagt tgcctcttag 240  
 aagcctaga gagaagggtg tctcccatat aaacacaaag gccagaagtg gatctcttgg 300  
 tacaacaca ggttggtcaa tcagcatcag caaatgcagt gaagttgaca gagttgtgag 360  
 catggaagaa caaaccttgt tcaggagcag atctgatata ctacagaaga atatgaacaa 420  
 catgtagggtg aagaactcta agtgccttca tatactgaat taatogata c 471

<210> 15338

<211> 491

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15338

tacctcaatg cnatttttct ctatatccat gaagatagct aacatacacc ttnggaaagt 60  
 ggttggtgca ttccacaatc canaggatat ccttatgtat gtaaaaacat caaaaggaca 120  
 agtgaaagta gtntctcttt ggtctttaag atctactaca atttggttat agcggaaata 180  
 accatctaag aagcaataat aagcttgtac ggccagccgc tctaactctt aatccatgaa 240  
 aggaagggga aagtgatcca tcttctgtgc ctgtttaaga attttataat ctatgtacat 300  
 tctccatccg gtcattgttg ttgtgcgaat taattcattt ttctcattct taacaattgt 360  
 catgcacacc ttcttcagat caacttgcac tcaactaacc catgcactat ccanaattgn 420  
 ctangtcatt ctagcttcta gaagtttana acctctttcc ttacctctt ctccatcaca 480  
 acaatcaatc c 491

<210> 15339  
 <211> 357  
 <212> DNA  
 <213> Glycine max

ttggaacttc accatcaaca tcttcacacat ctggatcaat taatatttct ggaatcattat 111  
 tcatcattgg ctctcttgctt ggatcatgct tggcttccat ccattgtgtc agcttatcga 180  
 attggaacac cttaactaaa actattagat tegtctcttg atctaagagt ttgtatgacc 240  
 tatgggatt gttagcaaca aagatcatgt gttcactctt gtcacccaat ttggcccttg 300  
 attgatcagg agtatgtcat gaacatgatg aaccacaaac tctcatatgc ctacacag 357

<210> 15340  
 <211> 502  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15340

gctttctctg acacctacat tectatacga tgaaaactnt gtttgtatac acacgtatta 60  
 ctataaaccc tgtctcttta tatcaaacg gtctatataa aacatctatt ccttttcaaa 120  
 gatttctctn tctttntca acatacactc gttgttgat aaaacaattt tctttatata 180  
 cactcattgc tcacacacca gaatttcttt tcacacatta tttatacaca caaaatcttt 240  
 tcatacactg tntatataca aaaactctnt tcttttcttt atataagata tgacatttgt 300  
 tcacaacgcc tctntctctn tctattcttg ggttatcat gatgtttgtt cgttntattn 360  
 taggaagagc ttcttaaatg aaaactctac acggttccgg aatttaacan acattatcga 420  
 caataacgaa gtaagcacta nagcaacagt tcaacataat gtatgcacaa aacanatgac 480  
 atcaaaaca acataaaca ac 502

<210> 15341  
 <211> 484  
 <212> DNA  
 <213> Glycine max



```
<223>      unsure at all n locations
<400>      15343
```

gggacctatg atactcagct tggatatctc ttcttccacta catcaagaat caccggggta	60
tggtctctct gtgggtgtct tacttgggta gctccatctt cttaaatttat tccatgcata	120
ctctctctct ctctctctct ctctctctct ctctctctct ctctctctct ctctctctct	180
ctctctctct ctctctctct ctctctctct ctctctctct ctctctctct ctctctctct	240
ctctctctct ctctctctct ctctctctct ctctctctct ctctctctct ctctctctct	300
ctctctctct ctctctctct ctctctctct ctctctctct ctctctctct ctctctctct	360
ctctctctct ctctctctct ctctctctct ctctctctct ctctctctct ctctctctct	420
ctctctctct ctctctctct ctctctctct ctctctctct ctctctctct ctctctctct	480
ctctctctct ctctctctct ctctctctct ctctctctct ctctctctct ctctctctct	540

```
<L10>      15344
<L11>      390
<L12>      DNA
<L13>      Glycine max
```

```
<223>      unsure at all n locations
<400>      15344
```

agctngatac aaacccttgc tacttttgcg atactcgaag ctatacgaat catgcctttc	60
tttgctactc actctcatat aaggatactt cagatggctg ctaaaagtgc cgtcttanat	120
ggccttatcg aataggcgat atatgctcga caacctcttg ggtttgaaga tegtactctt	180
acacaccatg ctttcacact taacaatgct ttgtatggcc tataacacga accacacgct	240
tgagagagaca gactgtgttc attgctctta gaaacgggtg tattaaagtc acaacggata	300
cctctctctc taaatgacaa gttggcaccg aattcattct agactcaatt tatgttgatg	360
atactctttgt taaagctact aacgaatctc	390

```

>L10>      15345
>L11>      423
>L12>      DNA
>L13>      Glycine max

```

```
<425>      unsure at all n locations
<490>      15345
```

agcttcaaga ttaagatguc ctcaagcaaat tccctatctc cagaauaggaa ttctatcaat 60

agacccctaaa tcttttaatgg agagggttac cactactgga aaaccocgaat gcaaatTTTT 120  
 atogaggcaa tagatctaaa tatctgggaa gccattgaaa tagggcctta tatacccacc 180  
 aatagagaaa gagtttcaat agatggtagt tcatcaagtg aaagcataac catagaaaaa 240  
 gttatgana tctgggacac tcttcataa cacatgaagc aactatatt gtttcaat 300  
 cta 413

<210> 15346  
 <211> 441  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15346

tactcaagct nttatcattg cttagaatag gatagtaaga ttccatacat tgtaattctt 60  
 ctgttgatga gtggccatt caaaagtgc atatgtctat gggaaggata ttgcatttac 120  
 ggtgaacaaac ggttgaacat atagtctctg ggttagctg gtctggtatt agatgataaa 180  
 gaacatgtct cgtttcaatt ataccaatct tcatacgttt gtctgtatcc tgcaacatgc 240  
 atgaattgga agaaaatata aatgcacagt cagtagatga cactagtttt gaaatggaaa 300  
 taatattgaa agcgaatgtg ggtcttaata atacattaaa cagcgttata ttgggtgaga 360  
 ggtgtaagac ttgggaatga gtaacgtgga catgatggcc gttatgaagc tttactgtga 420  
 ctgggttgat gcattcatat g 441

<210> 15347  
 <211> 431  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15347

agctntgagc aaattcaaac gacaataact tttagagtcg atgttcgatt gtgtcccgta 60  
 ggatategag acgtctgtaa ttgaaaaagc aagctctgag aaaaatcaaa cgacaataac 120  
 ttttaactcg gacttcgat tgaacctgt aatatatga gacgtctgaa attgaaaaagc 180

gaagctctaa gaaaagtcaa acgacaataa cttttgactc ggatgtccga tatagtctcg 240  
 taatatatcg agacgtctgt aattgaaaac cgaagctctt agcaaattca aacyacaata 300  
 acttttgaca cggatgtcca attgagttctc gttagtatct gagacgtcca taattganaa 360

15340-15348: ggaagctctt ggaagctctt ggaagctctt ggaagctctt ggaagctctt  
 15349-15350: ggaagctctt ggaagctctt

<210> 15348  
 <211> 334  
 <212> DNA  
 <213> Glycine max

<220> unsure at all n locations  
 <400> 15348

ctggaaactac ttacatgga cttgatggng cctatgcaag ttgaaagcct tggaggaaag 60  
 aagttatgcct atgtttgttgt ggatgatctc tccagattta cctgngtcaa cctttatcaga 120  
 gagaaatcag aaacctttga agtattccaaa gagttgagtc taagacttca aagagaaaag 180  
 gatttgttca tcaagagaat caggagtgac catggcagag aatttgaaaa cagcaggttc 240  
 actgaattct gcacatctga aggcattcact catgagttct ctgcagccat tacaccacaa 300  
 cagaatggca tagttgaaag gaaaaacagg actc 334

<210> 15349  
 <211> 316  
 <212> DNA  
 <213> Glycine max

<400> 15349

ggatatccat ctaaatccag agcatgcacc aaaatccat tcaaacgcct atccggcaca 60  
 tgttgcctgc ccttcaatct tagtgtgcca ccattattgg ttggaatgca cacatcacca 120  
 atccccacaa tgtttgtaat gctactattg accatgttca cttttccaaa gtctcttget 180  
 ctatacgtag taaagaattc cttgtttgaa gtggcatgat aagatgatgt tgaatcaatg 240  
 accaatccaa cacatgaata tgaacacagg caattattcat cttccacaga gatctgttgg 300  
 gtacaagtgt gaagtg 316

<210> 15350





aaaaatgggc attgaccaat ccttattcta tgaattgacc caattatcta gtgaggggtgt 120  
 accatttgaa ggtgcattga atgatgattg gaaatttgat ttctctgtgc atgatgccca 130  
 ccggttggtt tgcaccaatc aagcggatat aacggaaagg cttattgcgc gatcattggc 240  
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt  
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt  
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt  
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt

<210> 15353  
 <211> 413  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 15353

agtttggcct atccacatc acatgttagg tgcattgcaa ttgcatacaa atgctgactt 60  
 ttctttttta aaaaataata aaacaaagat atttgcgggt tccatgttgc tcaaaaacgtt 120  
 tegtnttcag ttgtcacatc ttctgttagt acatgaacat gtcttgcaag ggcgagagct 180  
 ggcccatttg ataactgaaca gtgcacaaaaa ggtaatcacc caccgaaagg ttattatcgt 240  
 ccaagtaatt aaactgaaga tcaaacgcgt tntctagctn taggtccaga tcatcgcttc 300  
 aactgggtgc gctctgcacc tgcctctcgc agtgacatc gggcgaaacc acgtgctcgc 360  
 aactgctcga agtcgtgttc aaccttggca ccgaatccga agtctacatg tac 413

<210> 15354  
 <211> 416  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <400> 15354

agttttaact atttatggac tggttgtagc attagcactt ttatttgcta atctttttgt 60  
 ttaactctaa aaaaatagaa atacatantc ctttttccgt ggaattgctt taacgggtctt 120  
 gcttttttga attctattta tattaatat tcaactctat aattctttat ccgttcggac 180  
 aagaacacag gggaaggact aattgaaagg tgaagaatcc acatacgtat tgcacctctt 240  
 tctctctctt cttagtccaa tgacccccc tcttttttaa gataatatt ctcaagtgtt 300

aaaacttgag agatcttgca atggatataa gaactgggat ctaattcgaa taagtatcat 360  
 tcttttggga atccttcaat tgattgacca tccaaatata tatggaatat atatat 416

<210> 15355

ttttacaaag catacgggtt tctggatgta gatgagata tctatcacga tggatcttat 60  
 atatctatat atctatagat agatatatag atatagatat atagatatag atcatacaat 120  
 gaagtaccgo acgagtgggt atataggaat ccaaatctgc cgaatcactc atgttatgat 180  
 cttctacatc ctaggtcttc ccttctcttc atctggotta tgttcttcat gtagcatcca 240  
 gactgaatga ctctatgaaa ttaactcgtt acttccacat ggtaacgggt acgtaggaga 300  
 catctctatt tttccggggg gaatccttat attaccacag cttaactttc attcgcctct 360  
 gacatcacat gaaaggataa cccgcctccc tcttgaaatt taaacaaagg tgttcggtct 420  
 gtctgtttga acaatttgct ttcatat 447

<210> 15356

<211> 407

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15356

agcttgagct tgacttgttt aactcattta taacttatga tttttgcttt tacaatttgt 60  
 taaattatct ttttaacttta tggattaagc atttgataat tattttaata ccagataatt 120  
 atttactact taaaaaatgt gcttaacatg tgatatgtgg aattaaatct ttttagacta 180  
 taaaaatagt tcatagctta ttgaccttta caaaaaagaa acttcanaat caatttaaca 240  
 ttctcaacaa agttcaaat acatattttc ataactaata tataaataac aaagaccaat 300  
 aaaatcttca tcaattnttg tatcaactaa atcattttaga cctcaatgaa acatanacaa 360  
 caacaccttt catgttttct aatttcaact aaaaaatgat aaatagt 407

<210> 15357

<211> 432

<112> DNA  
 <113> Glycine max  
 <123> unsure at all n locations  
 <400> 15357

atctctatat ctacagacag accagacatt gtatcaggaa ttttcagatt aaaaatagaa 240  
 cacatgctgt caaacttaac aaagggtcac ttactgggaa aagtgggtgca tgtaagttga 300  
 ctatctcattt tataacttaaa tacaaatata agttgcttat ttggccattt ttctttgttc 360  
 tataatgcag atattaatgg ctaaatatatt acaatntagc caacactttt atagatatga 420  
 gatacagaat ta' 482

<110> 15358  
 <111> 307  
 <112> DNA  
 <113> Glycine max  
 <400> 15358

tctcttagta cccctccacg tcattcccaa acaccgacgc gagccccatc ccgtgataac 60  
 caagtgtctt ttggggctct ttgccaacta cggggcggac accttgggag ccaactgtggc 120  
 ggacacgaag aacacgcgct tcgcaaagga ggccgcatgc ttggcggcgg cattgttggg 180  
 gccccgaaga gggtcacaag gagaaaccgc gaggggtgatg atcatggaag gccaggttgt 240  
 ttgttagagc ctccatggcg ccgcgcctc gcattggtgt tcccgggtg gtttgggggt 300  
 ttggagat 367

<110> 15359  
 <111> 396  
 <112> DNA  
 <113> Glycine max  
 <400> 15359

tagcttaage ttcttcaact gcacaaggct cttaatatat gaagagtatc cttatggaa 60  
 ctccacctga cacagatact gacaaaaaat tatcttctcc tttttggaca aagtatgaca 120

atcggggggc aagtaaatct tctttccatc agaccttgta tgc aaatgtg atcgtatccc 180  
catgtcagct agatcttgac gagtattcaa gccatccttc ttcttgccct gaatgttaag 240  
gagcatccca atcacactgt cacatacatt tatctccaca tgcataacat caatacaatg 300

15360  
15361  
15362  
15363  
15364  
15365  
15366  
15367  
15368  
15369  
15370  
15371  
15372  
15373  
15374  
15375  
15376  
15377  
15378  
15379  
15380  
15381  
15382  
15383  
15384  
15385  
15386  
15387  
15388  
15389  
15390  
15391  
15392  
15393  
15394  
15395  
15396  
15397  
15398  
15399  
15400

<110> 15361  
<111> 417  
<112> DNA  
<113> Glycine max

<123> unsure at all n locations  
<400> 15360

agcttgtagg cctaggatct tcatcaatgg attccttttc tttttggaag atgaatggca 60  
gcagaatgga gaagggaagag agagaggaga cgcacttca aggagaagat gagtctagaa 120  
gaagctcacc accataggag gccatggata agagcttgga ggaagaagga gatgaatgaa 180  
ggagaggaggaa gagaatagca cgaaattnta tgcctctaaa gagctctgaa atctgaagtt 240  
taattttcaa attatcaaag ttgaaaaaat gcacacacat gacctctatt tatagcctaa 300  
gtgtcacaca aaattggagg gaaatttgaa ttctatttca natttcaact gaatttgaaa 360  
ttgaatntat ggagccaaat ttggagcca aaatttcaact aattatgatt agttaat 417

<110> 15361  
<111> 384  
<112> DNA  
<113> Glycine max

<400> 15361

cactgtatag actgctgggt tcatgtatta cagaccaagc gatgtgaagt gttaacccgc 60  
catattggta agactgacaa tctctctctt tctttttctt ctcatctctc tcatctgaat 120  
tcttcaactg aaaaataata ggaaaaattc cgtcaatata aatttgcaag gtagaagaga 180  
atatataaaa aggttggtgc ttaacgatca gaetccacct aataacaaga atccggacaa 240  
aaactggcag caaatgggta aacaaggta aggcattgtg tacatagtcg agatcgccca 300  
agtgtgccc ctcaacctat tcttggtgt ctactacaat gtaacctaca aacaccaata 360  
gcccaaagta caactgcaac acca 384

<210> 15362  
 <211> 348  
 <212> DNA  
 <213> Glycine max

aaattggga aattgctaatt gaagaacttg gaatataga cccatcacgt ctcttatttc 120  
 ctccpytgca acatgctaatt gttagccagt taagtcggct ggtgagaaga aagcatgtga 180  
 ttggaacat tttaaatttt ttagtatact atacagggcc tctaacyggt ttgtgatgca 240  
 taccattatt aatgatgtgt tatgcttatg tcatgtaca aagaattggt agactcagtg 300  
 aagagtatga tccatgcact gaanagcact ccattgtata cttcaatc 348

<210> 15363  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15363

tagaatanat gtgaactgag tacnctntgg taagaacctc cataagttga ctntgtgaag 60  
 gtgcatatgg agtacaaatc aagcagcaat tgagcttttc cttgataaaa tgtttgtaaa 120  
 cttctacatg ctttgttcga gcctgtataa caggattatg agctatgctg atagttgatt 180  
 tattatcaca gtaagggttc attggtccat cccattcaat cttcaagttc tttatggaca 240  
 caccaaaattg acttttttaat cgttgagaag atattntaaa agacattgct ttcttcagat 300  
 ttttgtttta gaacaaaacc caagtgatct ggttacaatc atcaataaaa gtcataaacc 360  
 agcaagcccc tgaatatitt gaataggaga tggccctcan acatcagtat gaacagaata 420  
 aagadgaat atacttttc 439

<210> 15364  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<410> 15364

tgaggggaaaa ttgatgcac tggccaacct agttactcag ctttccatga atcagaaatt 60  
 tgcactatacg cctgttgcaa gactatgtgg totatgttct totgcagatc accatacaga 120  
 totctgtcct tctttgttagc aatctggagt caatgagcaa cctgaagctt atgctgcaaa 180  
 atgagagaaa agttagtgc cttctgtgca gaatgtgtgt ggtcttagca agccatatgt 240  
 tctctctcca atgcagcaac aac 300

<210> 15365  
 <211> 462  
 <212> DNA  
 <213> Glycine max

<23> insure at all n locations  
 <400> 15365

tcaacatcag accacttcca ggtgtctgga actacttcac atggatttga tggngcctat 60  
 gcaagttgaa agccttggag gaaagaggta tgcctatgtt gttgtggatg attctctcag 120  
 atttacctgn gtcaactnta tcagagagaa atcagaaacc tttgaagtat tcaaggagtt 180  
 gactataaga cttcaaagag aaaaagaactg tgtaatcaag agaatacagga gtgacctgg 240  
 cagagaattt gaaaacagca ggttcaactga attctgcaca totgaaggca tcaactcatga 300  
 gtctctgtga gccattacac cacaacagaa tggcatagtt gagaggaata acaggacctt 360  
 gcaagaagct gctanggtca tgcctcatgc caaagaactt cctataatc totgggctga 420  
 agccatgaac acagcatgct acatccacaa cagagtcaca ct 462

<210> 15366  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<400> 15366

tgaaggacat gcacaaagtg tgactatatg atgtggcaat ggtgtgtatc aagcaaatgc 60  
 tcacctcccc cttaggttgg accaaacttt aattgggttg ggcttctccc aattcaatta 120  
 aatttatctc ccaacacaca tcaaataggg cacttaatgc atgtgaaatt acaaaactac 180





<210> 15369  
 <211> 436  
 <212> DNA  
 <213> Glycine max

ttatgagagct gttgtttcaa tataggattg caaccaclet caattatgag taggattt 120  
 gcagcaagcc ctgcatcaac cgcaatcgac gagcactcat caggtgaaag ctgacacacg 180  
 gaccatagaa tgcacaaagg atactgagtg cagttttctg agatcctcat caacagcttc 240  
 accatgatgg gtatggtgtt agagcaatcc ttcaaaagcca ctctaccttc ggnagccgac 300  
 gccaacgcac ccaaacacac naggggcaat tccgtacaat caggttccat gcagacaaac 360  
 aattcaacca actgagaaac agccccaatg ctccacaagca aattcctaac ttccttatgc 420  
 anacanattg tcttga 436

<210> 15370  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15370

tcttttaccg taagagatgt gttccanatt atctagctat cacaatcatg ttgaaagcta 60  
 accaattgat tctgaacatg tacttcccaa tcagtgggtga caaggggtgac agcattaaag 120  
 catcatacct ccacatcttg gatctattga agaagagtgcc cgcagttgca gagatcacga 180  
 gaaagttctc aacaaatgag aacactntta cagtangagg gtcttttgcg gttagacctc 240  
 tgacacaggt canagcaagg ctcaacaatc atggaaagct cgggggcctc ctgcagcacg 300  
 agatcatacc anagtcagtg ttactgttt ctgggtgagat tgacaccaan ggccctgata 360  
 aaaatcccag gtttggattg caattgcctt caaccttgag gttttattca tttttagaaa 420  
 gtgacagag 429

<210> 15371  
 <211> 428

<212> DNA  
 <213> Glycine max

<400> 15371

aaacttctta atgaaaatgt ttaagaaaaa atgtggggtt taaatggggg agaadaaaga 60  
 tgaatttttt tgaatttttt tgaatttttt tgaatttttt tgaatttttt tgaatttttt  
 atgtaagaa taaatttttt tgaatttttt tgaatttttt tgaatttttt tgaatttttt 120  
 taattctaca tatgacaaag agtttttatgc attggtaayg gaattataaa attgacaaaca 300  
 ttaatttttg cctaaagtat ttgtcattca tagtgattat gattctttga agccattaat 360  
 agataagaa aagctgagca agagatatgt caagtgggtt gatttttttg ataatttctt 420  
 aaatgata 428

<210> 15372  
 <211> 403  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15372

agctttttat catggcctcc tatggtggtg agctttttct agactcatct tctctttgaa 60  
 atggggtctc ctctctctct tctttctcca ttctgctgac attcctcctc caagaagtaa 120  
 aggaatccat tgacgaagaa gatcctagga ctacaagctc caatggagct tacatcacia 180  
 cagttctctc taatgtango caagttaatg gctgtgctta agctctctga ggtaagacta 240  
 caagtggtaa ctctctctga tctacttaga gtagtggtca aggttangaa ttctagccta 300  
 aaggagttac ttggggcaat ggtagaaatc tgacctgaga atanggcctc aaagttctatg 360  
 tccatgcctg tgactaatcc gtacaccaac ccggtctctg ccatatta 408

<210> 15373  
 <211> 274  
 <212> DNA  
 <213> Glycine max

<400> 15373

tgaaggacat ggcctactg tgaatatatc atgtggcctt gtagtgaaac agacatatgc 60

tccaccttcca ctcctgctgc agcacacttt aatagcactg ggcctactgc aattcaatta 120  
 tagttatcta ctaacacacc tcagatacgg cacttactgc atgtgagtat cactaaacta 140  
 cccatagacc ggagactact ctatgagccc tatagtaacca catctaattg aaaatacatt 240  
 .....

<170> DNA  
 <113> Glycine max

<223> unsure at all n locations  
 <400> 15374

taatatatcg agactctcga aattgaacaa cggaaagctat cgagaaatto aaatggtcaa 60  
 tacttcgaac tcggaggctc tattaaggty cataatatat ctaaaagctc aaaattttac 120  
 aatggaagct ctttggctat acaaatggtc ataacttttc actogaaggt ccgattaagg 140  
 cgcataatat atcgagacgc tcagaattga acaatggaag ctcttgagca attcaaattg 240  
 tcataacttg tcaactengag gtccgattca gctgcataat atatcgtgac gctcgaaatn 300  
 gaacaatgga agctcttgag caattcaaat ggtcataact tgtcac 346

<210> 15375  
 <211> 465  
 <212> DNA  
 <213> Glycine max

<400> 15375

tgtccaaaga ttggttcatt aacttattct tggacaaaaa ctggttcttg agccacaatc 60  
 attagaggtg ataaccttta tgttaacttc aaaacattaa aggtctttta gtgtccatcc 120  
 catgttcgtg atttgttatt taattggaaa cttgagcttc atcaagttta atcatttttc 180  
 catgactagc tcacaagaa gtctcctttt tagaaatggt actcgtcttg ccacaagcac 240  
 tgtatggtea gaagggttgg ataaacaata ttccataatt tctttgggat acccaatgag 300  
 tcacatttc tcataccttg gctcaaggtg gtctatttgc aatctcttaa tctaagtggg 360  
 acaatcccaa gcttgggtgc gtttgagatt cattctagcc ctttccatat cacatatgga 420  
 gttgtacata taattttcta agacatgag tatcacatac acttt 465

<210> 15376  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

ttcttgcttt cagcaggag catctctcga agggctccac caactggcagc atctatcata 180  
 cttctctcca tattactgag tcttcataa aaatattgga gaagaagctg ctccgaaatc 240  
 tgaatggtgag ggcaactggc acatagtctt ttaaatoget cccagtaact atacaggctc 300  
 tctccactga gttgtctaatt acctgagata tctttcttga tggctgtggt cctggaagca 360  
 tggaaaattt ttctaagata ctctctt 337

<210> 15377  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15377

gagcttgaca agctgccata gcagcaacaa catattctgc ttcacatggt gacaaaacaa 60  
 ctagaatttg cttctttgag caccaagaga ttggtgatgt tccaaatttg aaaacatacc 120  
 cagcagtgct tttctgtca tctttatcac cacaccaatc tgaatcacta taaccaacaa 180  
 attttccttc tatattcttc tgactgtaaa gatataaaat gccaagatcc aatgttcctt 240  
 tcaacatact cagaatcttc ttgtctgctt ggaagtgagg tgtcttggtt tctccataaa 300  
 cctgcttata aacccaacac aataggcaat gtcaggctct gtgttacata ngtaacctca 360  
 tgagctct 367

<210> 15378  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15378

agcttgaagg taaactagat gccttgggta acctggtaac ccaactggcc atgaatcaaa 60  
 aatctgcacc tctgcccaga ctctgtgggt tatgtctctc tctcgaccac cacacagacc 120  
 ttgccccttc tctgcaacaa tctgaaccaa ttgaacagcc tgaagcttat gctgcaaca 180  
 gacatagct tcttccacca gctcagcagc aacagcccca gaaacagcaa acagttgagg 420  
 cccctccgca tctt 434

<210> 15379  
 <211> 465  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15379

tcttgggggt gcaacaggga ctaggactat ggaccaatc catatttggc aaaggcatca 60  
 taattggaat tctggacacc ggcataaccc ctgaccacct ttctttcaat gatgaaggaa 120  
 tgccactccc accggcaaaa tggaatggcc gctgtgaatt cactgggggag aagacttgca 180  
 acaacaaget cattgggtgca agaaattttg tcaaaaaccc aaactcaacc cttccactgg 240  
 atgatgtang tcatgggacc cacacagcca gcacagctgc aggaagactt gtgcagggtg 300  
 ctagtgtctt tggcaatgct aagggttcag cagttgggtat ggcaccagat gcacactntg 360  
 taatttaca ggtttgtgac ctctntgatt gttccgaaag tgcaatacta gctggaatgg 420  
 gcactgcaat acctcacttg gaggaccatc tgttcctttc tttga 465

<210> 15380  
 <211> 433  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <400> 15380

agctntgagc caattcaaac gacaataact ttttactcgg atgtctgatt cagtcctcga 60  
 atatctcag accctcaaaa tgaatgttg aacctctgag caaatgcaaa cgaaaaaat 120

tttttcttgg atgttttttt gagtcccgta atatatcgac acgctcgaaa ttgaatgttg 180  
 aagctctgag caaattcaaa cgataataac tttttactcg gatgtctgat tgagtgtgtg 240  
 aatatatcga gagctcctaaa attgaatggt gaacctctga gcaaatgcaa acgacaataa 300  
 tttttcttgg atgttttttt gagtcccgta atatatcgac acgctcgaaa ttgaatgttg 360

<210> 15381  
 <211> 123  
 <212> DNA  
 <213> Glycine max

<400> 15381

tctgaagttt cttttgggtga aggaaccatg gaaaagcaga gcgtttgga tggtttaacc 60  
 aattttctgag aactgttggg ggatgctgaa aacgagatta tcacgaatat ataagtttga 120  
 atg 123

<210> 15382  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15382

agcttgtgct cctgattgtc cacaaactgt ggcttcgtaa tttgcagcag aattgcagaa 60  
 aatgccttga agtagcactt cagaaaattt aagtactcag cagtgtgagc tatctcaaga 120  
 ctatccctaa cctccatcac catctgcagt cttgcgggaa tcgctgtttt caaccagaaa 180  
 cacaaaaaca aaaacaaaaa aattaagcaa aaacaaaaaca ctaaatgtca aaacaacgaa 240  
 tactgaaagc acttaaatgc caatacatca caggcatagt tgaatccatt ntctacgac 300  
 aaaagaacat ganaataagc actaaatgta naaacaacaa aaactggaag tgcttaaatg 360  
 tcaatacaac agaggcatan gtgaatccat 390

<210> 15383  
 <211> 465  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15383

tgccattcac tngnaatttt atattattct attctattaa gttttnttta gaagattggt 60

atattattct attctattaa gttttnttta gaagattggt 60

atattattct attctattaa gttttnttta gaagattggt 60

aggtagaat caattcgaaa tgggttcatt gtttataat tttttttt aattattggt 310

tggttaataa ggtcttcccc cttattggat tattattaga tcaactctga ttgtgtaate 360

tataatttc acgtctctaaa tatntttttt ccacgtgaaa atagtgtatg agagagctca 420

tattaattag taatgtgatt agagtanaac atatatgtag aggat 465

<210> 15384  
 <211> 413  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15384

agcttgatag gtccaagtgc aggtgctgct actggtggag gcacttcaat ttgcttgaaa 60

agggntntga atttgaattt tgaacatgta atcgattacc atatgtctgt aatcgattac 120

cagcaacgaa actcctgata ttcaaattca aaagtcatga ccttccaaat tataactgtg 180

taatcgatta tacagacatt gtaatcgatt accagtgaag agatttcaga aaatctgtca 240

acagtcacat attttcattg gatttatgaa tggccatcaa aggcctataa ataggtgact 300

tngnetcgaa ttntatgaga gagttntgct ggtccaaaat gtcttatcct ctcanaagaa 360

aatgagagag attccaagag aacttcattg ccaaagtctc tctcaagaag tct 413

<210> 15385  
 <211> 418  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15385

agcttghaag ataacaggtg attganattt tttttttaa aaaagctaaa gcattactct 61

tctctgtagat tctgtagogaa ggaaatctac acaaactctgg cgtccaccta accgcttccc 120  
 gttcatgact ttcctatgccc gagcagcagc atccagattg agaaactcaa cacacgcagt 180  
 ggcggggtct ataaagaact taaaatcttc aatcttaccg aatttgcgaa attccgcttc 240

<210> 15336  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15336

agctctotata caaggcttct tcttaatttc tctacaattg catcacctct caatgagctg 60  
 gtgaagaaga atgtggcatt tacctgtggt gaaaadacaag agcaagcctt ttctttgctc 120  
 aaagaaaagc ttactaaggc acctgttcta gctcttcttg actttttctaa aacttttgag 180  
 ctagaatgtg atgcctcttg agtgggagtt gyagctgtat tgttacaagg tgggcaccct 240  
 atttcttatt ntagtgaana acttcatagt gccgccctca actaccccac ctatgataaa 300  
 gagctttatg ccttaataag agccctccan acttgggaac attaccttgt ttccaaggaa 360  
 ttgtctatc atagtgatca ttaatcactt aagtacatta gagggcaaaa caagttaaac 420  
 aagaggcatg cataatgggt 440

<210> 15387  
 <211> 431  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15387

agcttagagt ttctggtagt tcattaaata ctgtttctat ttcctccaag ctcataatct 60  
 ccaaaaacgga ggtcttaggg gcaacctca caatttcaat accttttggg tctgaactc 120  
 gtgcgtcggc ttaaatgact agttcggagt tagagtcttg accacatttt attataaatg 180  
 gtgaggacga gctgtatta aattggagta cattccaatg tgcacgctca gtttcagatc 240



gagagcccag atctgttgat ggcttgccac catgaganat atcttgaatg gngtcattct 300  
 cttcaggaat tgactgtatg ataacaaaat aaaggatttg ggcacaaaag aaaatcaatc 360  
 canattcatt ntcacagtg cagttcttta gcatatacct aagctatagt cacaaacagc 420  
 caattcttca

<213> Glycine max

<223> unsure at all n locations  
 <400> 15388

agctctgagc ttttcatac gacaataact ntctactcgg atgtctgatt gtgtctctga 60  
 atatatcgag ttgtctgaaa tggaattccg aagctctgag canattcaaa cgacaataac 120  
 ntctactcgg gatgtctgat tgagtcctgt aatatatoga ttgtctgaa atggaattcc 180  
 gaagctctga gcaaatccaa acgacaataa ttttttactc ggatgtctga tttagtcctg 240  
 taatatatcg agctctctga aatggaattc cgaagctcgg agcanattca nacgacaata 300  
 attttttact cggatgtctg atttagtctt gtaatatatc gactgtctcg aaatggaatt 360  
 cgaagctctt gagcaaatcc aaacgacaat aactttttac tcggatgtct gatttagtcc 420  
 tgaatatat cgagattct 480

<210> 15389  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15389

agctctctat tactcttggc cactaggcca caagatcaac taggtctctaa taattctctt 60  
 aacctagggt ggtgactcac tctttagacc gataattctt ttaatcatac tcttaaaaga 120  
 gcaaacaaaat ttctaattta taaaatatat ctttaattct aaacaacatc ctanaagtaa 180  
 gacaatatct ttttttaaat ctacataata tcttagagat ttaaaattat aaattttaat 240  
 tatttctctaa cgttatgac aagattatag attggtatatt tagccatgga ttgattgcc 300  
 agacaatat attattgaag gagaatttt ttttaaaaa atactatgat tccacatctt 360

aatcataata atttaattta aatattcttt aattnttaat tcttgcttct cttctacacg 420  
aataaattc 428

<210> 15390

agcttgctaa accatggaag ttctaatat ctctacatt ttttggggtg ggcattctt 60  
ggatggcctt gattntctta gggctcactt ggaacctatt tttacaaact acaaacccaa 120  
agaaatacac aaaaggtaca cttctctata ttgcataga ggggtgtttt cctaaggact 180  
gaatgaactt gcttgagatg tcttaagtga tcatctangc tcttctgtga tactaaaata 240  
tcatcaaaat aaaaaactac aaatctact atgaaatccc ttaagacatg atgcataagc 300  
ctcataaagg tcttgggtgc attagtgcgc ccaaaaggca tcaatagcca ttcatacaaa 360  
ccanacttgg tcttgaaagc agttttccac tcatcactt tntcactct gattnggtga 420  
taaccacttt taagatcaat t 441

<210> 15391

<211> 400

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15391

agcttggtat gctcattctt aaggccacat acgttggtat atatttcttt catatataaa 60  
tatattatat atatttaata atcatctaac aatcatttat atcaactcgc ataaatcata 120  
tttgatataa tntaagaat aattatcata aaaattaata aatctatcat acatgatata 180  
attaaataat aatatataat tatttttacac tatcaataca taatctattt tatcatatta 240  
tattatgcgc ccataatata tttatactct ttctcagcgg gcacacttaa ttctggtttt 300  
caatagacat gaggatcagt ggacgtgcgg aataagtgtc attcccttac tctcaggaaa 360  
cagccatata tatcgcgatg atccaaacta tcatatctat 420

<210> 15392

<211> 271  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15392

atataatag ggaactcaat agactataga gaaatcaat attatcgtt gaatttgcac  
 agagtttcta cattcaattt cgagcgtttc gatataattac gggactcaat cggacatccg 240  
 agtaaatagt tattgtcagt tgaatttgc c 271

<210> 15393  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15393

agcttgccct tagttgtcca ggaaggacaa ggcagccgaa ggaactagtt ccgctccgga 60  
 gtatgacagt caccgcttta ggagcgtgt acaccagcag cgcttcgagg ccataaaggg 120  
 atgggcgttt ctccgggagc gacgcgtcca gtcagggac gacgagtata ctgatttcca 180  
 ggaggaaata gctctacgga gttttaaaag attggctaag attttgttaa aacataagca 240  
 cttagacaat gaaggaaagc tggagttgct gcacatgatg tccaacgtta tgtcaaggaa 300  
 taagatcggg ctgcacaatg cacaaggcaa gataaaatgt caaatgaaga attgaagttg 360  
 caggatccac gatgtcggat acaatgtcct gacatcctgc ccganaatac tggagttgct 420  
 gacaatgcat aagtcaagat a 441

<210> 15394  
 <211> 427  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15394

agctntgctt ctacacaaat gattaaatgc atganaaaca aactaagata acagaaatta 60  
 taattgggtt gcttcccagg aagcacttc ttaacutcat tagcttggca ctttaccctc 120



gacagtggct gctctttcca tctctttctc gacttcttcc tctttaagca atgcagtaaa 300  
 ctgggtatcc aaggatttcg ccgagctag ccaggcagat acaatcagca gaagtattcc 360  
 tcccaagtat ggggttgaat tagctagtga cccaaaagtc aagatcataa attgctggat 420  
 cctctctc

<213> 15397  
 Glycine max

<400> 15397

agcttctggt tccaatttcg aggtctctga tctttaagc ggtctctatc gacatccgag 60  
 ttaaaagtta ttgtctttg attttcttaa gagcttccct tttcaattac gagctcttcg 120  
 atatattaag ggacacaatc ggacacccga gtaaaaagtt actgtctgtt gaattttctc 180  
 agagcttcta tttcaatta ccagcgtctc gatataattc gggactcaat ccgacatccg 240  
 ggtaaaaagt tattgtctgt tgaattttct cagagcttat gttttcaatt acgagcgtcc 300  
 tgatatatta cgggactcaa tcggacatcc gagtcaaaaag tttttgtcga ttgaatttgc 360  
 tcagagcttc tggtttcaat taagagcgtc ctcattgatt aactggactt catcggacat 420  
 ccg 483

<210> 15398  
 <211> 421  
 <212> DNA  
 <213> Glycine max

<400> 15398

agcttgacat tcatataaaa ccttataact aagctgatta ctatatctta gatcgaactt 60  
 agcgaaaaga atcaaaaagc gaagcagtgt atgtattgaa tcggatccgg gttacacca 120  
 tctcttcgat gatgcacctt tcgcgaaaagc gaattatctg ctaatatata taatttggag 180  
 ctaaaagtcg acagtttgtg gaaaaacgca atagcaacaa acgcgcgaaga tgaatcaaac 240  
 aagcccaaaa ccaaatctct agaaaaattc attcagacct aagctaagaa cccaattctc 300  
 aaaatattaa aatagactag aacccaactt gtaaaaaggg gtgtctcgag aatcgaactc 360  
 ggcacctctc gcaaccgaag ccagaatcat accactagac cagacacctt atacaaattc 420

<210> 15399  
 <211> 430  
 <212> DNA  
 <213> Glycine max

agtttcaata ttatttcaaa taaataaaa ttttcttta tttttctat taagtctagt  
 aacatataga gacattcgaa attgactaga gaagctctga gcaaattcaa atgataataa 120  
 gtattgaatt ggatttttoga ttgaatcccg taatatatcg agatggctga agttgaaaat 180  
 ggaagctcat aaaaaatgaa aacaataata attgttaact ctgatgtccg attgagtcac 240  
 gtaatatata gagaagctgg taatggaaaa cagaagctca tagaaaatgc aaatcacaat 300  
 aacttttaac tggatgacc gattaagtcg tgtgacatcc tggaaatttc taaccgggaa 360  
 ttttgtaaat ggtgcatttc gaatggetat atatataagt attattcagt ggatgtatat 420  
 aagtatatat 430

<210> 15400  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15400  
 agctttctca tgttttaagt tcttctcan aactgtccta agcaaagttc ccaatgtcct 60  
 attagcaact tccatttgcg catcggttta tgggtgacaa gtggttgaaa ataacaattt 120  
 agtgcccaac ttgcccaca tagtctcca aaaatgaact aggaacttaa gtcctatca 180  
 ctaacaatgc tccctggaaa accatggagt ctccacaatct ccttgaaaaa caaatcagcc 240  
 acatgggaag catcatcaac tttttacat ggaataaaat aagccatttt agaaaaacca 300  
 tcatagacc acaaaatgga gtctctacca ctgcttgttt ttggtagccc tataacaaaa 360  
 tccatggata aatcaatcca ngtactctc ggaattggca atggagtata caatccatg 419

<210> 15401  
 <211> 384  
 <212> DNA

<213> Glycine max

<400> 15401

agcttctaga tgagttatgt ctgcgaatcg gacatcctgt gaaaagttat gaccatttga 60

ctttcttggg tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt

tttttttttt tttttttttt tttttttttt tttttttttt

tttttttttt

tgaatgtgt agagaatttt cgttggttca ttctgagcgt ctagatgagt tatgttaccg 90

attctggacat cctgtgtaaaa agttatgacc attctgcttt gtctgagagct tccgatgttc 360

attttccagc gtctcgatat atta 384

<210> 15402

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15402

agcttatcat tatcaaactt ggagaaagag ttcttggggg caagacatga gaagcaatca 60

agtataatgt tacttccttc actaaagcgg tgatccatct ccacacatat ttatatcaata 120

gcaacataaa aaatctctgc acggtaatga tgaagattag tgatagtctt cctttctgct 180

cttgaacgac ccgaactgg tatttcgtca tccatatttg gtaccagaat acttttagca 240

acacaaaatc cttggacatc ggcaaaaaaa ttattccagc cactctctct cattgtgccc 300

aaccgagctn tgacaacatc aactaatcc atgacattca caatattaag atcttttctt 360

tgcataatat ttgaaagctc gtttgtgata ccaaaacaact ntaacattaa cctcaaaata 420

aaagc 425

<210> 15403

<211> 434

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15403

accttttaat ctttatacat tattcccgct ctgataccac ttgtttgacc ttgtggcttc 60

aataatotta agagggatag gcttagaata cagaagaaac aacaacaatc aatttaacaa 120

tgttetttan acatgcaaga cacaattgat tgcaacaaaa taaataagat aagggagag 180

agaatgcaaa cagagtnta tattgggttcg gccacaacc gtgcctacgt ccagtactca 240

atgagatc atgt

atgagatc atgt 464

<210> 15404

<211> 384

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15104

ttatcttatg ttctaacat ctacaataga cctcctcaac ctcagtagca aaatcagcca 60

caacagaata attatgacct ttccagcaac aggtacaatc ccgagtggag gaatcatccc 120

aaccttaaat ggttgaatcc ttaacaacag caacaacaac aaccttattt taaaaatgat 180

gttggcctaa gcagaccata cgttcctcca ccaatctagc agcaacaaca acaacagctt 240

cagaaacaac aaacagttga ggctccttcg caccttcctt tgaagaactt gngacgcaca 300

tgactatgca aaacatgcag ttccaacaag agaccagagc ctacattcag agctttacta 360

atcagatggg acaattggct acac 384

<210> 15405

<211> 432

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 15405

agctttgagt ttattcaaac gacaataact ttttactcgg atgtctaate gagtccagta 60

atatatcgag agcttcgaaa ttgaatgttg aaactctgag ctgattcaaa cgacaataac 120

tttntactcg gatgtccgat tcagtgaagt aatatatcga gacgctcgaa attgaatgtt 180

gaacctctga cccaattcaa agacaataaa ctttttactc ggatgtctga ttgagtcctg 240



aaatatatcg agacgggtcga aattgaatgt tgaacctctg aggcacatca aacgacaata 300  
 acnttttaact cggatgtctg aatgagtcac gtaatatatc gagacgctcg aaattgaatg 360  
 ttgaagctat gagccaattc aaacgacaat aactnttacc tggatgtctt gagtggatc 420

15405

<110> DNA  
 <111> Glycine max

<223> unsure at all n locations  
 <400> 15406

agcttctcga tatattatgc tctgaatca gacttcggtt tcanaagtta tgaccatctg 60  
 aatttctcca ctgtattcgg tgtcacaagt gatgaccatt tgaattcttc gatagcattc 120  
 gttgttcaat ttgagcgttc tggatatatg atgcgcctga atcggaattc<sup>\*</sup> cgtgtgacaa 180  
 gttatgacaa ttgaatttg tggagagcat cggttgttag aattcgagcg tctcnatata 240  
 tttatgcgctt gaatcagaca tccgtgtgac aagttatggc catatgaatn tctcgagagc 300  
 atatcgttgt caatttcaag cgtctctata tagtctg 360

<110> 15407  
 <111> 485  
 <112> DNA  
 <113> Glycine max

<223> unsure at all n locations  
 <400> 15407

gctaataaat ctatatatgg ttaaacacag cccctgtcag tggttccttt tttttcatgg 60  
 gnataattct ttatgtgggt gtaatgataa ccccatggat caatgcatat accacaaggt 120  
 cagtaggagt aaaatatggt gctctgtttt atatgtagat gatattttac ttgtagtcaa 180  
 tgatcgggggt ttgtacatg aggtgaaaca attctctctt aagaattttg acatgaagga 240  
 tatangtgat gcatcttatg tcatcgacat taagattcat agagatagat ctcgaggtat 300  
 ttgggggtta tcacaagaca cctatatata caaaattcta gagagatata atatgaaaga 360  
 ttgttcacca agtgttgcta tcaatttgaa cgggtgacagg tttagtttga actaatgac 420  
 aaagaatgac tctgagaggg acgagaagaa acatattcat tatgtttcaa ttctcgacag 480

cctca

485

<210> 15408

<211> 484

<212> DNA

atcttcttata atcttcttctt ttttgatgat gacaaacctg atcttcttctt atcttcttctt  
atcttcttctt tagtcgatca ctacactaat tctccatatt ctcccccctt gtttttgagt 120  
ttaagcttca ctggaatta agttacttaa ttatgtgagt tcttgattta attcctattn 180  
tctttccccc ttggcagca acaaaaagcc aaagtctgta acaattataa aacatacata 240  
aatgactaat catacacaag acattttatt aataatctaa accaatcatg aagcaaaaac 300  
atgaataacc catattaata tataaaccac atagtcatat aacataatto ataaaaactt 360  
atcatacta agcaaatagt ataagaagta ctagatgttc anatttcata ataatatagg 420  
ccaatacatg actagaaatc tacagtctaa taatattaca cataatagac atctatgatg 480  
atgg 484

<210> 15409

<211> 332

<212> DNA

<213> Glycine max

<400> 15409

agcttctaga tgagttatgt ctgctaactg gacatcctcg tgaaagtat gaccatttga 60  
atctctcgag tgcctccgtt gtttaatttc aagcgtctcg atattttatg tctcaaatc 120  
agacatcgga gcgaaatggt atgaccatc gaattttgtg agagcttccg tttttcaatt 180  
tggagcgtct agatgagtta tgtcacggaa tcagacatct gagtgaatg gtatgaccat 240  
tgaatttgt cyagagctat cgttggttcaa tgcgagcgt ctagatgagt taggtcatcg 300  
aatcggacat ccgtgtagaa aagttatgac ca 332

<210> 15410

<211> 178

<212> DNA

<213> Glycine max



tcttaagrat gatgtaaagg atggattaat atttagaana cagtaaattg atgatttctg 180  
 aaaattcagc totgagaaac aagaatttac aagaatttca tgacactata ataggggggc 240  
 atgcttgaag aacaaaaacc atggctagaa ttgtagtea attttattgg cctaaactgc 300  
 aaaaadatat taagtcttat atcaaatat gaaatata taaatatt taaatatt

<210> 15413  
 <211> 484  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15413  
 tactcagctt anacttgca anaggagtgg agcaggtaac anagaatcgt cttcattctc 60  
 tttagaggtga ctntgagcgt tcgtttatgg aggagtcga gtcattttct gattattggt 120  
 ctccagctatt ggccgtagtc aatcaactta aaagaaatgg tgaagatggt gatgaggtga 180  
 aagtcctgga aaaaataactt cgaacttta atccaagttt tgacttcatt gttaccaaca 240  
 ttgaagaaaa caaggattta aagaccatga ctattgagca actaatgggt tctttacaag 300  
 catacgaaga ataacaaacg agacaaatta aacaatagga ggctacggag caactactac 360  
 aactcaacgt ataggaagca aactatgcaa attacaagag ccaaacagga cgatgtcgtc 420  
 gccaatatcg tggacgtgga cgaggacatg gatgagaatg aagatgtggt tacaacaacc 480  
 actc 484

<210> 15414  
 <211> 417  
 <212> DNA  
 <213> Glycine max  
 <400> 15414

agcttccatt gctcatttct tagcatctcg atatattatg cgccttaata ggacctccaa 60  
 gtgaaaattt atgaccattt gaattgctca agagcttcca ttgttcaatt tcdagctctc 120  
 cgatatatta tgcacctgaa tcgtacctcc gaggtaaagg ttaagacctt ctgaatatct 180  
 taagagcttc cattgttcaa ttccagcgtc ctgatatat aatagccttc aatcagacct 240

cggagttaaa agttatgacc atttgaattt ctagagagct tctgtgtgtc aatttcgagc 300  
 gtttcgatat attatgtgcc tgaatcggac atccgagtga atagttatga ccatttgaat 360  
 tgttcaagag cttccgttgt tcaatttcag cgttcgata tatatgggc tccaatc 417

<310>            DNA  
 <311>            Glycine max

<323>            unsure at all n locations  
 <400>            15415

agtttcaaca ttatactcac ttccagggcg ctggaactac ttcacatgga cttgatgggg 60  
 cctatgcaag ttgaaagcct tggaggaaag aggtatgcct atgggtgtgt ggatgatttc 120  
 tccagatcta cctgngtcaa ctttatcaga gaaaaatcag acacctttga agtattcaag 180  
 gagttgagtc taagacttca aagagaaaaa gactgtgtca tcaagagaat cangagtga 240  
 catggcagag agtttgaaaa cagcaggtct actgaattct gcacatctga aggcctcact 300  
 catgagttct ctgcaaccat tacaccacaa cagaatggca tagttgagag gaaaaacagg 360  
 actttgcaag aggctgctac ggtcatgctt catgccaaag aacttacctt taatctntgc 420  
 gctgaagcca tgaacacagc atgctacaat cacaacagag tcacact 467

<310>            15416  
 <311>            414  
 <312>            DNA  
 <313>            Glycine max

<323>            unsure at all n locations  
 <400>            15416

ntaacanagt atccagtntg agtgggttgg tcataatata aaccacttgt tcttgtgtcc 60  
 cacaatgcct catcttgata gttccagttt ttgtaagata tggaaagaaa tgaaatcgga 120  
 catcaatatg ttataacga ccatgcttta ctggattctt cgaagcttta atagcagagc 180  
 tactatcaca acaaattaca gttagctggg tctgcatttt acacaatttt cccaacaccc 240  
 ttttcaacca tatggcttga caagcagagc atgctgcacc tatgaactct gctctgttag 300  
 ttgatagact cacaatttgg tgtttctttg atgaccaaga gacagcagct gaacacaata 360  
 agagaacata acccgaagta ctttgtctat catccaaatc tcttccataa tcac 414

<210> 15417  
 <211> 453  
 <212> DNA  
 <213> Glycine max

gaaagacagc taactgtaat catatgcct ataaqatga aacgctctc cattctatca 120  
 ttttggggcaa gaggcacaat tataattgca taagtcttgg cagtgggaga agatatagat 180  
 gaaacttttg ttctcatgaa ctcaaaaaga ttacagcct ctggtaccat acctgctttg 240  
 cagtatgtat caatggcagt gttgtaogca taattgtcat goctatgacc cagtccaacc 300  
 attctctcca gtaatgtcat cctctagtc nggtgtctaa cctacacca cccataaacg 360  
 aatataattat aagtctctgc attaggttg actggtttac tcattatctt atacagaagt 420  
 tcagatctct caaccaagca acacttgac agt 453

<210> 15418  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15418

agctntgaat gctctattct atggagttga caagaatata tgtagactga tcaacatatg 60  
 cacagtggcc aaggatgcat gggagatcct gaaaaccact catgaaggaa cctccaaagt 120  
 gaagatgtcc agattgcaac tattggccac aaaattcgaa aatctgaaga tgaaggagga 180  
 agagtgtatt catgacttcc acatgaacat tcttgatatt gccaatgctt gcactgcctt 240  
 gggagaaaga atgacagatg anaagctggt gagaaagata ctacagatctt tgccaaagag 300  
 acttgacatg atagtcacta caatagatga ggccccagac atttgcacaa tgagagtaga 360  
 atgaactcat tggctccttc aaacctttga gctangactc tcggatagga ct 412

<210> 15419  
 <211> 481  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15419

tttgcaagct ggaatcattt atcataacctc tgatagccaa tgggtgagtt ccgaagaana 60

tttgcaagct ggaatcattt atcataacctc tgatagccaa tgggtgagtt ccgaagaana 60

gaggttntt ctggttatat gcaaatcaat attgctcctg aggatcagga gaagacggca 120

ttcaactgcc ccttcggcac ttttgccat aagaggatgc ctttcgggtct gtgcaatgcc 360

cttgytacct tccagcgggtg catgatgtag tagtttagtg atattttaga aaattgcata 420

gagggtgtta tggatgattt cactgtatat gaatctctt ttcataattg tttggatagt 480

c 481

<210> 15420  
 <211> 462  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <400> 15420

agctt.ctaaa ctttgtacaa gaatgaagct ctgataccac ttgttagaca ngtggcctca 60

gatatcttaa gaaggggggg gttgaattaa gatattcgaa actttttccc ctaattaaaa 120

atctatctta cttntactt aagttatgaa ttcccttaat gacaatcttc ttaaataatta 180

attcaaatga agcaacttga atatgaatat aaagcaataa taaataaagg agattaaggg 240

aagagaaaat gcaaactcag ttttatactg gttcggccac acccttgtgc ctacgtccag 300

ttcccaagca acccgcttga gagttccact aacttgtnaa ttccctttac aagttctaaa 360

cacacaagga ctaccctatc tttgtgttta gagattcttt acaacaagag actcacagtc 420

ttttatccc ttatagaatg agaagaagaa gaggaacaaa tc 462

<210> 15421  
 <211> 437  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<400> 15421

gagatgaann aaattatact agatcaaaty anattgatta ttttttataa taaacatcaa 60  
cacatatatc tcaagaaaga tatattatat aacatcttat cagacacaat ctctataact 120  
tctctctctc tctctctctc tctctctctc tctctctctc tctctctctc tctctctctc  
tctctctctc tctctctctc tctctctctc tctctctctc tctctctctc tctctctctc  
tctctctctc tctctctctc tctctctctc tctctctctc tctctctctc tctctctctc  
atgaattactc cacttctatgc aaataaatat tcaaaatgaa tacaatatat tcaaaagcgt 480  
tcaaatcgat tggaaatatth tttcttttct accgcctaat cntaattccg aatatttaat 420  
tgatttgaat atttata 437

<L10>	15422
<L11>	393
<L12>	DNA
<L13>	Glycine max

<400> 154.22

agcttataat	atatttatac	gtctgaaatt	aaacatcgga	aactctcgga	aaattcaaatt	60
agtcataact	attcacacgg	atgtccgatt	caggcttata	atatatcgat	acgctcgaaa	120
ttaaacaatcg	gaaactctcg	cgaaaattcaa	atggtcataa	cttttcacac	ggatatccga	180
ttcgggcaca	taatatgtcg	agaagctcga	tattgaacaa	cgaaagttct	ttagaaattc	240
aaatgggtctt	aactttttcac	acggatgtcc	gattcaggag	aatcacatat	cgagacgctc	300
aaattgagca	acagaagctc	ttgagaaatt	caaatgggtca	taactttttca	cacggatggt	360
agattaagga	gcacacata	ttgatacgct	cgaaaatg			398

<210>	15423
<211>	347
<212>	DNA
<213>	Glycine max

<400>	1542.3
-------	--------

ttcgtctctt	tgtttagtc	agttctcttc	tggtctcttc	tcctcagttg	gctttctctc	60
tgtgtgcagc	atcttgggat	gtacccagcc	tttgatgaca	gctttccagg	ttctgctatc	120
cagggaattg	aggaacggca	ccattcttgc	tttccagtat	tcataat'gg	t'ccatccaa	180